

FOREIGN AND INTERNATIONAL PATENTS

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200572

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File 347:JAPIO Nov 1976-2005/Jul (Updated 051102)

(c) 2005 JPO & JAPIO

Set	Items	Description
S1	962849	BAND OR BANDS OR BELT OR BELTS OR STRAP OR STRAPS OR CUFF - OR CUFFS OR SLEEVE OR SLEEVES OR COLLAR OR COLLARS
S2	555313	STRIP OR STRIPS OR LOOP OR LOOPS
S3	57944	INFLAT?
S4	1588016	FLAT OR FLATTEN??? OR STRAIGHT OR STRAIGHTEN??? OR LEVEL OR LEVEL???
S5	469618	CONVEX OR CONCAVE OR CURV???
S6	772	S1:S2 AND S3 (S) S4
S7	571	S1:S2 (S) S3 (S) S4
S8	25	S5 (S) S7
S9	209528	IC=(A61F-002? OR A61B-017? OR A61B-019? OR A61F-005? OR A6- 1L-031? OR A61K-009?)
S10	0	S8 AND S9
S11	40	S7 AND S9
S12	1597	S3 (10N) S4
S13	19	S11 AND S12
S14	4408061	WHEN
S15	15	S4 () S14 (3W) S3
S16	15	S15 NOT S13
S17	51	S6 AND S9
S18	28	S12 AND S17
S19	9	S18 NOT (S13 OR S15)
S20	49	(S1/TI OR S2/TI) AND S3/TI AND S4/TI
S21	4	S9 AND S20
S22	1	S21 NOT (S13 OR S15 OR S18) [not relevant]
S23	44	S20 NOT (S13 OR S15 OR S18 OR S21)
S24	44	IDPAT (sorted in duplicate/non-duplicate order)
S25	42456	INFLATE OR INFLATES OR INFLATED OR INFLATING
S26	668229	FLAT OR STRAIGHT OR FLATTEN??? OR STRAIGHTEN???
S27	629	S1:S2 AND S25 AND S26
S28	68	S5 AND S27
S29	228	S1:S2 (S) S25 (S) S26
S30	18	S5 (S) S29
S31	15	S30 NOT (S20 OR S13 OR S15 OR S18 OR S21)
S32	0	S9 AND S31
S33	15	S29 AND S9
S34	5	S33 NOT (S30 OR S20 OR S13 OR S15 OR S18 OR S21)

13/3,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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017175788 **Image available**

WPI Acc No: 2005-499405/200551

XRPX Acc No: N05-407112

Inflatable gastric belt for controlling patient's food consumption, has
chamber wall forming work surface having length greater than or equal to
length of back surface such that wall forms folds during belt closing and
after belt inflation

Patent Assignee: MEDICAL INNOVATION DEV SAS (MEDI-N); MEDICAL INNOVATION

DEV (MEDI-N)

Inventor: DENIS P A; FRERING V; DENIS P

Number of Countries: 108 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2865129	A1	20050722	FR 2004392	A	20040116	200551 B
WO 200572664	A1	20050811	WO 2005FR83	A	20050114	200553

Priority Applications (No Type Date): FR 2004392 A 20040116

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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FR 2865129	A1		23	A61F-005/00	
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WO 200572664	A1 F			A61F-005/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ
UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IS IT KE LS LT LU MC MW MZ NA NL OA PL PT RO SD SE SI
SK SL SZ TR TZ UG ZM ZW

Abstract (Basic):

... The **belt** has an elongated tubular body (2) defining an **inflatable** sealing chamber (3). Connections units placed at the **level** of two ends (12, 16) of the body, permit to close the **belt**. The chamber wall forms a work surface (5), in deflated state of the **belt**, having a length greater than or equal to length of a back surface (4) of the chamber such that the wall forms folds, during closing of the **belt** and after **inflation** of the **belt**.

... The chamber wall constituting the work surface, forms folds, during closing of the **belt** and after **inflation** of the **belt**, thus assuring good stability of the **belt** at the **level** of the stomach wall or esophageal wall, restricting the rolling movements of the **belt** susceptible to induce the inflammation for tissue at the contact zone of the **belt** with the stomach or esophageal wall, and assuring better control of the stomach restriction formed by the **belt**. The folds ensure the equilibrium of the **belt** **inflation** pressure and better distribution of the force applied to the stomach...

International Patent Class (Main): **A61F-005/00**

13/3,K/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015789944 **Image available**

WPI Acc No: 2003-852147/200379

XRAM Acc No: C03-240200

XRPX Acc No: N03-680524

Fixation device for orthopedic application, comprises inner and outer airtight materials, airtight seams, flexible structure, valve, controlled inflation device, and adjustable fastener

Patent Assignee: ORTECH INNOVATIVE ORTHOPEDIC DEVICES LTD (ORTE-N)

Inventor: YAVNAI A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030176825	A1	20030918	US 200298540	A	20020318	200379 B

Priority Applications (No Type Date): US 200298540 A 20020318

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20030176825 A1 25 A61F-005/00

Abstract (Basic):

... fixation device can be fastened on section of a body to a desired clearance and **inflated** to desired **levels** of stiffness and tightness. It can be removed for washing or treatment and reapplied. When...

Technology Focus:

... are connected by fiber columns. The adjustable fastener includes at least one pair of fastening **strips** designed along length of the device parallel to the length axis of the body, at least two pairs of fastening **strips** designed along a width of the device perpendicular to the length axis of the body...

...drawstrings designed within respective draw channels. The device comprises length sections, each designed for individual **inflation**; and width sections, each designed for individual **inflation** or fastening. The device also includes a replaceable interface designed on inner material and body...

...for wrapping inner and outer materials, first pressure gauge(s) for monitoring pressure within the **inflatable** volume, and second pressure gauge(s) for monitoring pressure between the device and body. The replaceable interface is washable or disposable. When unfastened, the device may open to a **flat** configuration.

International Patent Class (Main): **A61F-005/00**

13/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014884501 **Image available**

WPI Acc No: 2002-705207/200276

XRPX Acc No: N02-555841

Inflatable spinal support device for trauma patients, comprises inflatable bladder removably secured to backboard, whose upper surface is expanded toward patient's body

Patent Assignee: HOSTER W (HOST-I)

Inventor: HOSTER W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6425399	B1	20020730	US 97912554	A	19970818	200276 B
			US 2000664045	A	20000905	

Priority Applications (No Type Date): US 2000664045 A 20000905; US 97912554 A 19970818

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 6425399 B1 12 A61F-005/37 CIP of application US 97912554

Abstract (Basic):

... The spinal support device comprises an **inflatable** bladder (12) which expands and depresses to a **flat** configuration and an **inflated** configuration. The bladder is removably coupled to a backboard (13) with **straps** (26). The bladder has an upper surface (18) which is expanded to support patient's...

International Patent Class (Main): **A61F-005/37**

13/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
014154111 **Image available**
WPI Acc No: 2001-638330/200173
XRAM Acc No: C01-188764
XRPX Acc No: N01-477090

Traction device for use in home or office, includes anchor system, hand grip, resilient band, harness, and tensioning cable

Patent Assignee: CUSHMAN R B (CUSH-I)

Inventor: CUSHMAN R B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6302859	B1	20011016	US 2000542628	A	20000404	200173 B

Priority Applications (No Type Date): US 2000542628 A 20000404

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6302859	B1		8	A61F-005/00	

Abstract (Basic):

Technology Focus:

... is styrofoam pieces cut to fit inside a frame and create a surface which is **flat** and **level**. It is an **inflatable** pad. The frame is made of plastic tubing or wood. The resilient **band** is made of an elastic material and a spring. The harness is made of a...

International Patent Class (Main): **A61F-005/00**

13/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
011893579 **Image available**
WPI Acc No: 1998-310489/199827
XRPX Acc No: N98-243365

Orthopaedic spinal traction corset - has hip and chest belts connected by supports with inflatable chambers to push them apart

Patent Assignee: SPINORT FIRM (SPIN-R)

Inventor: BARDIN A I; DYKHNE A M; RYLEEV A N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RU 2094028	C1	19971027	RU 95110389	A	19950620	199827 B

Priority Applications (No Type Date): RU 95110389 A 19950620

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
RU 2094028	C1		9	A61F-005/02	

...Abstract (Basic): traction corset, for use in orthopaedics, neurology and traumatology, consists of hip (1) and chest **belts** connected by extendable telescopic supports. At least some of the supports are in the form of tubes containing multi- **level** **inflatable** chambers (7-11) with adjacent chambers linked together by central tubes (12), and the bottom...

...In between the different **levels** of the **inflatable** chambers there are spacer bushes (17), and above the upper layer there are sliders with lateral projections connected to the chest **belt**. Other supports are adjusted by means of rack and pinion mechanisms...

International Patent Class (Main): **A61F-005/02**

13/3,K/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
008820030 **Image available**
WPI Acc No: 1991-324043/199144
XRAM Acc No: C91-139992
XRPX Acc No: N91-248413
Inflatable hand splint used to straighten bent fingers - has stiff
element strapped to wrist and inflatable ball in hand
Patent Assignee: DMANNCO INC (DMAN-N)
Inventor: MANN D B
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 5056504 A 19911015 US 91709591 A 19910603 199144 B
Priority Applications (No Type Date): US 91709591 A 19910603; US 90612319 A
19901113
International Patent Class (Additional): A61F-005/04 ...

13/3,K/16 (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
007499189 **Image available**
WPI Acc No: 1988-133122/198819
XRPX Acc No: N88-101188
Hydraulic contained motorised joint for artificial limb - has inflatable
hose transmitting force to strap interconnecting relatively movable limbs
Patent Assignee: AIR MUSCLE LTD (AIRM-N); HENNEQUIN J R (HENN-I)
Inventor: FLUCK P
Number of Countries: 015 Number of Patents: 008
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
WO 8803008 A 19880505 WO 87GB743 A 19871021 198819 B
AU 8781536 A 19880520 198833
EP 287623 A 19881026 EP 87907010 A 19871021 198843
JP 1501447 W 19890525 198927
ES 2008318 A 19890716 ES 873193 A 19871110 198948
US 4944755 A 19900731 US 88213701 A 19880620 199033
EP 287623 B 19920318 EP 87907010 A 19871021 199212
DE 3777634 G 19920423 199218
Priority Applications (No Type Date): GB 8625144 A 19861021; ES 873193 A
19871110
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
WO 8803008 A E 37
Designated States (National): AU JP US
Designated States (Regional): AT BE CH DE FR GB IT LU NL SE
EP 287623 A E
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE
EP 287623 B 17
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE
...Abstract (Basic): one another about a joint (62). Power to actuate the
joint is provided by an inflatable hose (64) having an inextensible
wall acting between the members. A strap (72) interconnects the

inflatable hose (64) to the members so that in one position of relative movement of the members the hose is in a deflated, **flat** and folded condition. **Inflating** the hose increases the cross-section and unfolding the hose causes relative movement between the...
...position of relative movement. The hose is hollow, sealed at one end and has a **flat** transverse cross-section when deflated. USE/ADVANTAGE - Human and animal limbs used in surgical prothesis...
...one another about a joint (62). Power to actuate the joint is provided by an **inflatable** hose (64) having an inextensible wall acting between the members. A **strap** (72) interconnects the **inflatable** hose (64) to the members so that in one position of relative movement of the members the hose is in a deflated, **flat** and folded condition...
International Patent Class (Additional): **A61F-002/08** ...

13/3,K/18 (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
002131101
WPI Acc No: 1979-F1033B/197923
inflatable tourniquet sleeve - comprises flat band with parallel individually inflatable cells which can be fastened around body part
Patent Assignee: HYDROLA LTD (HYDR-N); MEGO AFEK IND MEASU (MEGO-N)
Inventor: GEIFER V; KAGANOVSKY Y; MUCHNIK S
Number of Countries: 004 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SE 7810540	A	19790521				197923 B
FR 2405708	A	19790615				197929
US 4338923	A	19820713				198230
IT 1099928	B	19850928				198703

Priority Applications (No Type Date): IL 53123 A 19771013
...Abstract (Basic): A **flat inflatable band** of flexible material is internally divided into a number of individually **inflatable cells** (18, 22) which extend along one dimension of the **band**. Each cell has an opening (28) for **inflation** and deflation...
International Patent Class (Additional): **A61F-005/37** ...

13/3,K/19 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.
08370284 **Image available**
FECAL TREATMENT APPLIANCE, METHOD AND APPARATUS FOR INTRODUCING THE SAME
PUB. NO.: 2005-118544 [JP 2005118544 A]
PUBLISHED: May 12, 2005 (20050512)
INVENTOR(s): GREGORY CHRISTOPHER C
APPLICANT(s): BRISTOL MYERS SQUIBB CO
APPL. NO.: 2004-260604 [JP 2004260604]
FILED: September 08, 2004 (20040908)
PRIORITY: 03 501218 [US 2003501218], US (United States of America),
September 09, 2003 (20030909)
INTL CLASS: A61M-031/00; **A61F-005/442** ; A61M-003/00
ABSTRACT
...is formed of an elastic material soft as a whole. This end part has an **inflatable** balloon 14 formed in a completely **inflated** shape. The balloon **inflates** at a low pressure level predetermined so as to prevent

pressure necrosis of a peripheral tissue. An inserting apparatus includes a hard core 80 surrounded by a soft and elastic sleeve 86. The sleeve extends by going over the hard core so as to form a part capable of... arranged near the apparatus. The balloon is wound on the apparatus. A part of the sleeve is turned over so as to cover the appliance. The balloon and the soft and...

16/7/15 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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04783020 **Image available**

AUXILIARY IMPLEMENT FOR INSERTION OF LARGE INTESTINE FIBER SCOPE

PUB. NO.: 07-075620 [JP 7075620 A]

PUBLISHED: March 20, 1995 (19950320)

INVENTOR(s): SATO TOMOYUKI

APPLICANT(s): SATO TOMOYUKI [000000] (An Individual), JP (Japan)

APPL. NO.: 03-357490 [JP 91357490]

FILED: December 04, 1991 (19911204)

ABSTRACT

PURPOSE: To assist the smooth insertion of a large intestine fiber scope into the colon by providing the auxiliary implement with a slender balloon-like implement having the cross diameter not exceeding the bore of the colon when the implement is inflated and forming a hole to permit putting in and out of a material in this implement.

CONSTITUTION: The slender balloon-like implement 1 is inserted into the patient's rectum and liquid, gas or solid having a flow property is injected from the hole 2 therein. The slender balloon-like implement 1 extends successively into the intestinal canal according to curving of the intestinal canal, advances beyond the sigmoid colon and arrives at the descending colon at this time. The bar-shaped balloon has the nature that the balloon is soft when inflated insufficiently and is solid and **straight when sufficiently inflated** and, therefore, the slender balloon-like implement 1 easily advances beyond the sigmoid colon according to curving in the initial period of inflation and, thereafter, straightens the sigmoid colon when the implement is sufficiently inflated. Henceforth, the curving of the other large intestine parts is made dull in the same manner and thereafter the large intestine fiber scope 5 is manipulated to be inserted into the large intestine along the slender balloon-like implement 1.

19/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015900408 **Image available**

WPI Acc No: 2004-058247/200406

XRAM Acc No: C04-023958

XRPX Acc No: N04-047026

Catheter for performing vascular intervention surgery, includes balloon coupled to inflation lumen, nose cone with longitudinal ribs, resilient stabilizing member with flat surface, and stabilizing cable

Patent Assignee: ADVANCED CARDIOVASCULAR SYSTEM (ADCA-N)

Inventor: HANTSKE J A; MACKINNON R A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6645217	B1	20031111	US 99312076	A	19990515	200406 B

Priority Applications (No Type Date): US 99312076 A 19990515

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6645217 B1 9 A61B-017/22

Abstract (Basic):

... to distal end of a cutter cable and in a housing, a balloon coupled to **inflation** lumen, a nose cone with longitudinal rib(s), a resilient stabilizing member with a **flat** surface to stabilize the catheter portion in a biological conduit, and a stabilizing cable for selectively bowing and **flattening** stabilizing member that is taperingly attached to a distal end of the housing and coupled...
... A catheter comprises a housing torque cable (102) having proximal and distal ends and an **inflation** lumen, a housing connected to the distal end of the housing torque cable and including...
...and in the housing, a balloon (112) disposed opposite the window and coupled to the **inflation** lumen (106), and a nose cone coupled to a distal end of the housing. The...
...of the nose cone. The window exposes the cutter. A resilient stabilizing member has a **flat** surface to stabilize a portion of the catheter within a biological conduit. It is disposed...
...window. A stabilizing cable is coupled to the resilient stabilizing member for selectively bowing and **flattening** the stabilizing member that is taperingly attached to a distal end of the housing and...

Technology Focus:

... made of a polymer from nylon or polyurethane. The resilient stabilizing member is a thin **strip** of resilient material from polycarbonate or polyamide...
...of material(s) from steel, titanium, or zirconium. The resilient stabilizing member is a thin **strip** of resilient material from stainless steel, nickel-titanium alloy, or titanium...

International Patent Class (Main): A61B-017/22

19/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015872785 **Image available**

WPI Acc No: 2004-030616/200403

XRAM Acc No: C04-010113

XRPX Acc No: N04-024076

Abdominal support for supporting abdominal region having incision, comprises fluid impermeable expandable bladder which is expandable towards and conforms with contour of abdomen for applying pressure to abdominal region at incision zone

Patent Assignee: TUBBS J C (TUBB-I)

Inventor: TUBBS J C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6629942	B1	20031007	US 99353858	A	19990715	200403 B

Priority Applications (No Type Date): US 99353858 A 19990715

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6629942 B1 16 A61F-005/00

Abstract (Basic):

... incision zone and in the zone proximal to it. A hand pump is provided for **inflating** the bladder with pressurizing compressible

fluid to a selected pressure level . An adjustable **waistband** (22), of an elastic material but pliant material, encircles the waist of...
...disruption of the sutures, while accelerating recovery. At a later interval, the bladder and encircling **band** need not be employed, and the patient can use only the partial or full body...
...Restraining **band** (20...
International Patent Class (Main): **A61F-005/00**

19/3,K/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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002090779
WPI Acc No: 1979-B0667B/197905

Orthopaedic traction device for spine - has template and base plate
removably fastened to belt and inflatable air bladder
Patent Assignee: ROMANO N A (ROMA-I)
Inventor: ROMANO N A
Number of Countries: 003 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4135503	A	19790123				197905 B
GB 2031732	A	19800430				198018
DE 2847362	A	19800508				198020

Priority Applications (No Type Date): US 77757073 A 19770105
...Abstract (Basic): An orthopedic device is designed and configured to provide ambulatory traction to specific **levels** of the spine of a human. An **inflatable** bladder is affixed between a rigid base plate and an apertured template so as to...
...traction apparatus includes the bladder, template and base plate. These are removably mounted to a **belt** having both a latex portion causing expandable support when placed in surrounding relation to the...
International Patent Class (Additional): **A61F-005/02** ...

24/7/17 (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011825363 **Image available**
WPI Acc No: 1998-242273/199822
Seat cushion for reducing strain on coccyx - comprises inflatable cushion with opposite ends joined together by flat film strap to form endless ring
Patent Assignee: BORT GMBH (BORT-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 29803709	U1	19980423	DE 98U2003709	U	19980304	199822 B

Priority Applications (No Type Date): DE 98U2003709 U 19980304
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 29803709	U1	7	A47C-003/16	

Abstract (Basic): DE 29803709 U

An annular elastically resilient support cushion (2-7) is formed by joining the two opposite ends of the cushion together using a holder (8) whose height is less than that of the adjacent cushion ends.

Preferably the cushion is inflatable and comprises two round films (2,3) made from synthetic elastic material that are joined together to

form a tight seal running around the inner and outer edges (4,5) of the ring. The holder is a strap made from the same material as the cushion, comprising a flat film region extending between seal weld (7) on both ends of the cushion.

ADVANTAGE - Coccygodynia and coccyx contusion can be effectively treated without using drugs.

Dwg.1/1

Derwent Class: P26

International Patent Class (Main): A47C-003/16

24/7/27 (Item 27 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010149755 **Image available**

WPI Acc No: 1995-051007/199507

Assembly to support seated persons head upright - has strap encircling head of user containing inflatable balloons having flat veneer surface and expandable frontal surface

Patent Assignee: DANESHVAR Y (DANE-I)

Inventor: DANESHVAR Y

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5378042	A	19950103	US 92896981	A	19920611	199507 B

Priority Applications (No Type Date): US 92896981 A 19920611

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5378042	A		14	A47C-007/38	

Abstract (Basic): US 5378042 A

A device adapted to support the head of a seated user relative to a generally upstanding portion of a seat, stroller, or the like. A strap is adapted to encircle the head of the user and is upstanding portion. the strap comprises **inflatable balloons having flat rear surfaces and expandable frontal surfaces**. Upon inflation the generally flat rear surfaces of the balloons remain flat, and the frontal surfaces bulge outwardly from the rear surfaces to contact and support the user's head.

A first balloon contacts the user's forehead, a second balloon for contacting the right side of the user's head, and a third balloon for contacting the left side of the user's head. A conduit places the first balloon and one of the second and third balloons in communication, and are inflated via a first inflation port.

ADVANTAGE - Is very useful in helping patients and preventing pain and bad feelings of human beings, and that is what I look for.

30,31/37

Derwent Class: P26

International Patent Class (Main): A47C-007/38

31/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014837106 **Image available**

WPI Acc No: 2002-657812/200270

Related WPI Acc No: 2001-182397; 2003-128921; 2003-585588; 2003-605686; 2003-644634; 2003-695869; 2003-896516

XRAM Acc No: C02-184706

XRPX Acc No: N02-520018

Treatment of cerebral aneurysm, using device movable from collapsed to expanded position which passes through patient's vascular system to aneurysm, having cover and lateral extension to isolate aneurysm from parental vessel

Patent Assignee: CONCENTRIC MEDICAL INC (CONC-N); DIECK M (DIEC-I); GIA S (GIAS-I); SEPETKA N (SEPE-I); SEPETKA I (SEPE-I); DIECK M S (DIEC-I)

Inventor: DIECK M; GIA S; SEPETKA N; SEPETKA I; DIECK M S

Number of Countries: 098 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200269783	A2	20020912	WO 2001US50203	A	20011024	200270 B
EP 1335772	A2	20030820	EP 2001273063	A	20011024	200362
			WO 2001US50203	A	20011024	
AU 2002258372	A1	20020919	AU 2002258372	A	20011024	200433
US 6746468	B1	20040608	US 99324359	A	19990602	200437
			US 2000695637	A	20001024	
US 20040181253	A1	20040916	US 99324359	A	19990602	200461
			US 2000695637	A	20001024	
			US 2003729432	A	20031204	

Priority Applications (No Type Date): US 2000695637 A 20001024; US 99324359 A 19990602; US 2003729432 A 20031204

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200269783 A2 E 65 A61B-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

EP 1335772 A2 E A61M-029/00 Based on patent WO 200269783

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

AU 2002258372 A1 A61B-000/00 Based on patent WO 200269783

US 6746468 B1 A61M-029/00 CIP of application US 99324359

CIP of patent US 6375668

US 20040181253 A1 A61M-029/00 CIP of application US 99324359

Cont of application US 2000695637

CIP of patent US 6375668

Cont of patent US 6746468

Abstract (Basic):

Technology Focus:

... Preferred Arrangements: The cover is a **flat** element and is positioned against wall of the parental vessel around the neck of the

...laterally outward from a side of the device. The lateral extension forms at least one **loop** (preferably 1-8 **loops**) extending into the aneurysm. The cover extends around no more than half and one third...

...frame. The impermeable portion is positioned to cover the neck of the aneurysm after the **inflating** step. The sheath is folded over itself at a distal end, and exposed by pulling back over itself. The **loop** has a first side attached to the cover and slidable relative to the cover, when the **loop** expands. The lateral extension is coupled to a source of energy such as RF energy...

...another when moving from a collapsed position to an expanded position.

The filaments form a **concave** surface which covers a neck of an aneurysm when positioned in the aneurysm. The filaments form a **convex** (308) surface opposite the **concave** (310) surface. The filaments are in a **straightened** configuration when collapsed within the catheter. Each filament forms a coil in the expanded position...

34/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015190060 **Image available**

WPI Acc No: 2003-250594/200325

XRPX Acc No: N03-198985

Portable, inflatable compression sleeve or prophylactic gaiter for use by travellers to prevent occurrence of deep vein thrombosis has wrap around sleeve containing continuous inflatable bladders to apply graduated pressure to lower limb

Patent Assignee: CLOTSOX LTD (CLOT-N)

Inventor: STRANGE D F

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2373444	A	20020925	GB 20017272	A	20010323	200325 B

Priority Applications (No Type Date): GB 20017272 A 20010323

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2373444	A	30	A61F-005/01		

Abstract (Basic):

... DVT **sleeve** is easy to put on and remove and easy to **inflate** while not being distressing to wear or walk around in. Includes no electrical or metal components and so is lightweight, folds **flat** and can be economically produced. Wrap around design enables single device to be used by...

International Patent Class (Main): **A61F-005/01**

34/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

009475440 **Image available**

WPI Acc No: 1993-168975/199321

XRPX Acc No: N93-129373

Adhesion prophylactic for endoscopic use - involves double-walled foil rolled onto applicator and introduced into body cavity

Patent Assignee: WISAP GES WISSENSCHAFTLICHEN APP MBH (WISA-N)

Inventor: SEMM K; KURT S

Number of Countries: 013 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 543272	A1	19930526	EP 92119294	A	19921111	199321 B
DE 4138100	A1	19930527	DE 4138100	A	19911119	199322
AU 9228487	A	19930520	AU 9228487	A	19921119	199327
CA 2083204	A	19930520	CA 2083204	A	19921118	199332
CN 1076103	A	19930915	CN 92114638	A	19921119	199424
US 5387224	A	19950207	US 92976930	A	19921118	199512
AU 656636	B	19950209	AU 9228487	A	19921119	199514
EP 543272	B1	19960207	EP 92119294	A	19921111	199610

DE 59205297 G 19960321 DE 505297 A 19921111 199617
EP 92119294 A 19921111
CA 2083204 C 19980901 CA 2083204 A 19921118 199845
Priority Applications (No Type Date): DE 4138100 A 19911119
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 543272	A1	G	5	A61B-017/02	
Designated States (Regional): AT BE CH DE ES FR GB IT LI					
DE 4138100	A1		4	A61B-019/00	
US 5387224	A		4	A61B-017/00	
AU 656636	B			A61M-029/02	Previous Publ. patent AU 9228487
EP 543272	B1	G	6	A61B-017/02	
Designated States (Regional): AT BE CH DE ES FR GB IT LI					
DE 59205297	G			A61B-017/02	Based on patent EP 543272
AU 9228487	A			A61M-029/02	
CA 2083204	A			A61B-017/02	
CN 1076103	A			A61B-019/00	
CA 2083204	C			A61B-017/02	

...Abstract (Equivalent): prophylaxis in particular for endoscopic abdominal surgery with an inflatable, cushion-like envelope (12), an **inflating** area (16) for **inflating** the envelope (12) and located on the latter and at least one fixing area (20) for fixing the **sleeve** (12) to a body tissue, characterised in that the envelope (12) is constructed as a **flat** stretched **flat** balloon...

International Patent Class (Main): A61B-017/00 ...

... A61B-017/02 ...

... A61B-019/00

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200573

(c) 2005 Thomson Derwent

File 347:JAPIO Nov 1976-2005/Jul(Updated 051102)

(c) 2005 JPO & JAPIO

Set	Items	Description
S1	963415	BAND OR BANDS OR BELT OR BELTS OR STRAP OR STRAPS OR CUFF - OR CUFFS OR SLEEVE OR SLEEVES OR COLLAR OR COLLARS
S2	555594	STRIP OR STRIPS OR LOOP OR LOOPS
S3	42476	INFLATE OR INFLATES OR INFLATED OR INFLATING
S4	367412	DEFORM?
S5	469900	CONVEX OR CONCAVE OR CURV???
S6	601138	CROSS() (SECTION? ? OR PIECE OR PIECES) OR CROSSWAYS OR CRO- SSPIECE? ? OR CROSSWISE OR TRANSVERSE?
S7	668551	FLAT OR FLATTEN?? OR STRAIGHT OR STRAIGHTEN???
S8	78492	CURVATURE
S9	739095	RING OR RINGS
S10	2107835	S1 OR S2 OR S9
S11	9891	(S5 OR S8) (5N) S6
S12	2069	S10 AND S11
S13	164	S3:S4 AND S12
S14	45	S7 AND S13
S15	996925	IC=(A61F? OR A61B? OR A61L? OR A61K?)
S16	76992	IC=A61K-009?
S17	1	S14 AND S15:S16 [a duplicate]
S18	44	S14 NOT S17
S19	32	S18/TI [not relevant]
S20	12	S18 NOT S19 [not relevant]
S21	10	S13 AND S15:S16
S22	9	S21 NOT S17
S23	195	S11(3W)S7
S24	8	S3:S4(S)S23 [not relevant]
S25	0	S24 NOT (S14 OR S21)
S26	42	S10 AND S23
S27	20480	BALLOON? ?
S28	0	S26 AND S27
S29	32	S26 NOT (S14 OR S21)
S30	2	S29 AND S15:S16
S31	13689	GASTRIC OR GASTROPLASTY OR MORBID??()OBES???
S32	0	S29 AND S31
S33	1997178	BODY
S34	4	S29(S)S33 [not relevant]
S35	479509	SURGERY OR SURGICAL OR PATIENT? ? OR MEDICAL
S36	2	S29 AND S35
S37	1	S36 NOT (S30 OR S34) [not relevant]
S38	6829	(S5 OR S8) (S)S7(S)S10
S39	327	(S3 OR S4 OR S27) (S)S38
S40	12	(S31 OR S35) AND S39
S41	12	S40 NOT (S30 OR S34 OR S36 OR S14 OR S21)
S42	300	S39 NOT (S40 OR S30 OR S34 OR S36 OR S14 OR S21)
S43	10	S15:S16 AND S42

22/7/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009547407

WPI Acc No: 1993-240956/199330

Scoliosis treatment method - one side of corrector, made in form of

resilient strip , is fixed to transverse process of upper neutral vertebra on convex side

Patent Assignee: SARAT TRAUMATOLOGY ORTHOPAEDY RES INST (SATR-R)

Inventor: NORKIN I A; VINOKUROV V A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1748803	A1	19920723	SU 4795151	A	19900223	199330 B

Priority Applications (No Type Date): SU 4795151 A 19900223

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1748803	A1	2	A61B-017/56		

Abstract (Basic): SU 1748803 A

One end of the corrector, made in the form of a resilient **strip** , is fixed to the transverse process of the upper neutral vertebra on the convex side. The **strip** is taken along the **transverse** processes on the **convex** side to the apex of **deformation** then between the **transverse** processes on the **concave** side.

USE/ADVANTAGE - To treat scoliosis, reducing the need for further correction in the process of growth. Bul.27/23.7.92

Dwg.0/0

Derwent Class: P31

International Patent Class (Main): **A61B-017/56**

22/7/8 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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002372492

WPI Acc No: 1980-H8957C/198037

Implant for fixing fractured ribs - uses stainless steel plate or strip with rows of pointed pegs and grooves for anchor wires

Patent Assignee: HOWMEDICA INTL INC (HOWM-N)

Inventor: HARDER H E; RICHTER K M; VECSEI V

Number of Countries: 010 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 14823	A	19800903				198037 B
EP 14823	B	19811209				198151
DE 3060103	G	19820204				198206

Priority Applications (No Type Date): DE 79U3184 U 19790206

Cited Patents: CH 611147; FR 590290; US 2583896; US 2952254; US 4146022

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 14823	A	G			

Designated States (Regional): AT BE CH DE FR GB IT LU NL SE

EP 14823 B G

Designated States (Regional): AT BE CH DE FR GB IT LU NL SE

Abstract (Basic): EP 14823 A

The internal prosthesis consists of a long plate made of a **deformable** material which is compatible with the human body. One side of the plate is provided with rows of pointed pegs, and the longitudinal edges of the plate possess grooves. The transverse **cross - section** of the plate is pref. **curved** and the pegs' pref. end in cones tapering to a sharp point.

The plate pref. has one long row of pegs on its centreline.

Two pegs form a transverse row at each end of the plate. Due to the

curvature of the plate, the pegs in the transverse rows are inclined.
The grooves on the longitudinal edges of the plate pref. have
semicircular ends

Abstract (Equivalent): EP 14823 B

The internal prosthesis consists of a long plate made of a
deformable material which is compatible with the human body. One side
of the plate is provided with rows of pointed pegs, and the
longitudinal edges of the plate possess grooves. The transverse **cross**
- **section** of the plate is pref. **curved** and the pegs pref. end in
cones tapering to a sharp point.

The plate pref. has one long row of pegs on its centreline.

Two pegs form a transverse row at each end of the plate. Due to
the curvature of the plate, the pegs in the transverse rows are
inclined. The grooves on the longitudinal edges of the plate pref. have
semicircular ends

Derwent Class: P31

International Patent Class (Additional): A61B-017/18

30/7/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011944583 **Image available**

WPI Acc No: 1998-361493/199831

**Laparoscopically implantable prosthesis - occludes a defect opening
without collapsing into it, and has single instrument for loading and
delivering implant through trocar cannula**

Patent Assignee: BARD INC C R (BRDC)

Inventor: DICESARE P C; MULHAUSER P J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5766246	A	19980616	US 92886689	A	19920520	199831 B
			US 94178665	A	19940107	

Priority Applications (No Type Date): US 92886689 A 19920520; US 94178665 A
19940107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 5766246	A	17	A61F-002/06	Div ex application	US 92886689
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Abstract (Basic): US 5766246 A

The laparoscopically implantable prosthesis comprises a
biologically compatible pliable tissue infiltratable fabric (34)
provided with a semi-rigid **ring** frame (32). The fabric is a piece of
knitted polypropylene monofilament mesh fabric, and the **ring** is made
of silicone or polypropylene material, is circular, elliptical, or
polygonal in shape, has a rectangular **cross - section**, and may have a
flat, **concave**, or convex configuration. Anti-migration barbs or
staples (40) are provided to prevent migration of the implant during
tissue infiltration. An instrument is used for loading the implant (30)
into a narrow configuration and delivering it through a trocar cannula
to the implant site.

USE - For repairing and reinforcing a ruptured or defective
muscular wall, e.g. for repairing direct or indirect inguinal hernias.

ADVANTAGE - Occludes the hernia without stuffing the void, and is
capable of being delivered to the defect site using a single instrument
for collapsing the implant and delivery through a trocar cannula.

Dwg. 4a/7

Derwent Class: A17; A26; A96; D22; P31; P32
International Patent Class (Main): A61F-002/06
International Patent Class (Additional): A61B-019/00

41/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
015883219 **Image available**
WPI Acc No: 2004-041053/200404
XRAM Acc No: C04-016520
XRPX Acc No: N04-033280

Implantable medical device for delivery of bioactive agent, has removable polymeric drug delivery panel coupled to surface of radially expandable structure

Patent Assignee: ATRIUM MEDICAL CORP (ATRI-N)
Inventor: HERWECK S; KARWOSKI T; LABRECQUE R; MARTAKOS P
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030153901	A1	20030814	US 2002355557	P	20020208	200404 B
			US 2002187074	A	20020628	

Priority Applications (No Type Date): US 2002355557 P 20020208; US 2002187074 A 20020628

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030153901	A1		28	A61F-002/06	Provisional application US 2002355557

Abstract (Basic):

... An implantable **medical** device, e.g. stent, comprises an expandable structure with central longitudinal axis and outer surface...
... An implantable **medical** device consists of a radially expandable structure (10) having a central longitudinal axis (11)...
...An INDEPENDENT CLAIM is also included for manufacture of implantable **medical** device by electrostatically coupling a removable polymeric drug delivery element to a portion of outer...
...The **medical** device is used for delivery of bioactive agent. It may be in the form of...
...The inventive **medical** device provides prolonged and controlled drug release without the use of permanently attached or woven...
...The figure is a perspective view of the inventive **medical** device...

Technology Focus:

... and a second contourable surface. The first contourable surface is adaptive to a portion of **curvature** of the outer surface of expandable structure without limiting uniform expansion of the expandable structure...
...structure to recoil to a previous position. The second contourable surface is adaptive to the **curvature** of outer surface of the expandable structure and a topology of inner portion of the...
...carrying organ. The drug delivery panel has a closed three-dimensional geometric form bounded by **straight** surfaces or continuous linear arcuate edge surfaces. The three-dimensional geometric form is a polyhedron...
...exhibiting a gradual diminution in width from first end portion to second end portion. The **medical** device also includes a radially **expanding** device that temporarily fastens a portion of drug delivery...
...the outer surface of expandable structure. The expanding device includes a fastener (14) comprising a **deformable** radially expandable loop

made part of the expandable structure before and after crimping on a deployment delivery catheter. A portion of the expandable loop structure comprises a bendable element made part of the expandable structure to bend from a...

41/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014837106 **Image available**

WPI Acc No: 2002-657812/200270

Related WPI Acc No: 2001-182397; 2003-128921; 2003-585588; 2003-605686;

2003-644634; 2003-695869; 2003-896516

XRAM Acc No: C02-184706

XRPX Acc No: N02-520018

Treatment of cerebral aneurysm, using device movable from collapsed to expanded position which passes through patient's vascular system to aneurysm, having cover and lateral extension to isolate aneurysm from parental vessel

Patent Assignee: CONCENTRIC MEDICAL INC (CONC-N); DIECK M (DIEC-I); GIA S (GIAS-I); SEPETKA N (SEPE-I); SEPETKA I (SEPE-I); DIECK M S (DIEC-I)

Inventor: DIECK M; GIA S; SEPETKA N; SEPETKA I; DIECK M S

Number of Countries: 098 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200269783	A2	20020912	WO 2001US50203	A	20011024	200270 B
EP 1335772	A2	20030820	EP 2001273063	A	20011024	200362
			WO 2001US50203	A	20011024	
AU 2002258372	A1	20020919	AU 2002258372	A	20011024	200433
US 6746468	B1	20040608	US 99324359	A	19990602	200437
			US 2000695637	A	20001024	
US 20040181253	A1	20040916	US 99324359	A	19990602	200461
			US 2000695637	A	20001024	
			US 2003729432	A	20031204	

Priority Applications (No Type Date): US 2000695637 A 20001024; US 99324359

A 19990602; US 2003729432 A 20031204

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200269783	A2	E	65	A61B-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

EP 1335772	A2	E		A61M-029/00	Based on patent WO 200269783
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

AU 2002258372	A1			A61B-000/00	Based on patent WO 200269783
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US 6746468	B1			A61M-029/00	CIP of application US 99324359
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CIP of patent US 6375668

US 20040181253	A1			A61M-029/00	CIP of application US 99324359
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Cont of application US 2000695637

CIP of patent US 6375668

Cont of patent US 6746468

Abstract (Basic):

... extension, movable from a collapsed to an expanded position. The device is advanced through a patient's vascular system to an aneurysm

with the cover in the collapsed position and the...
Technology Focus:

... Preferred Arrangements: The cover is a **flat** element and is positioned against wall of the parental vessel around the neck of the...
...laterally outward from a side of the device. The lateral extension forms at least one **loop** (preferably 1-8 **loops**) extending into the aneurysm. The cover extends around no more than half and one third...
...frame. The impermeable portion is positioned to cover the neck of the aneurysm after the **inflating** step. The sheath is folded over itself at a distal end, and exposed by pulling back over itself. The **loop** has a first side attached to the cover and slidable relative to the cover, when the **loop** expands. The lateral extension is coupled to a source of energy such as RF energy...
...another when moving from a collapsed position to an expanded position. The filaments form a **concave** surface which covers a neck of an aneurysm when positioned in the aneurysm. The filaments form a **convex** (308) surface opposite the **concave** (310) surface. The filaments are in a **straightened** configuration when collapsed within the catheter. Each filament forms a coil in the expanded position...

41/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014494043 **Image available**

WPI Acc No: 2002-314746/200235

Related WPI Acc No: 2002-618333

XRPX Acc No: N02-246376

Laparoscopic/thorascopic support device, has balloon provided to distal end of shaft and is adapted to be expanded to lock catheter about desired body part

Patent Assignee: LEVIN J M (LEVI-I); LEVIN M W (LEVI-I)

Inventor: LEVIN J M; LEVIN M W

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6358198	B1	20020319	US 99134639	P	19990518	200235 B
			US 2000571236	A	20000516	
WO 200377773	A1	20030925	WO 2002US8131	A	20020315	200373 N
AU 2002254247	A1	20030929	AU 2002254247	A	20020315	200432 N
			WO 2002US8131	A	20020315	

Priority Applications (No Type Date): US 99134639 P 19990518; US 2000571236 A 20000516; WO 2002US8131 A 20020315; AU 2002254247 A 20020315

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6358198	B1	11	A61F-002/00	Provisional application US 99134639	
WO 200377773	A1	E	A61B-017/12		

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 2002254247 A1 A61B-017/12 Based on patent WO 200377773

Abstract (Basic):

... includes a shaft made of material that is sufficiently flexible

to bend to a desired **straight** or **curved** orientation and is sufficiently rigid to maintain the desired orientation. A distal end of the shaft is adapted to bend about the desired body part to form a **loop** and secure the desired body part within the **loop**. The shaft includes an eyelet (18) for retaining the distal end of the shaft to form a closed **loop**. A **balloon** at the distal end is directed through a central passage of the eyelet. The **balloon** is adapted to be expanded to lock the catheter about the desired body part. An...
...included for a method of engaging and temporarily supporting a desired body part of a **patient**'s body in a non-traumatic manner...
...For engaging and temporarily supporting a desired part of a **patient**'s body in non-traumatic manner in laparoscopic and thorascopic **surgical** procedures...

41/3,K/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013718887 **Image available**

WPI Acc No: 2001-203117/200120

XRAM Acc No: C01-060415

XRPX Acc No: N01-144926

Gastroplasty ring for use in treatment of morbid obesity has lugs for attaching ring to stomach wall after ring has been curved
Patent Assignee: MEDAC PHARMA SA (MEDA-N); SURGICAL DIFFUSION SA (SURG-N);
MEDAC PHARMA BELGE SA (MEDA-N)

Inventor: LATOUR M; LATOUR M J

Number of Countries: 023 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200119297	A1	20010322	WO 2000IB1293	A	20000913	200120 B
FR 2798280	A1	20010316	FR 9911618	A	19990914	200120
AU 200068606	A	20010417	AU 200068606	A	20000913	200140
EP 1212017	A1	20020612	EP 2000956744	A	20000913	200239
			WO 2000IB1293	A	20000913	
US 20020169464	A1	20021114	WO 2000IB1293	A	20000913	200277
			US 200298059	A	20020314	
US 6694982	B2	20040224	WO 2000IB1293	A	20000913	200415
			US 200298059	A	20020314	

Priority Applications (No Type Date): FR 9911618 A 19990914

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200119297 A1 F 17 A61F-005/00

Designated States (National): AU CA JP US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

FR 2798280 A1 A61F-005/00

AU 200068606 A A61F-005/00 Based on patent WO 200119297

EP 1212017 A1 F A61F-005/00 Based on patent WO 200119297

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE

US 20020169464 A1 A61B-017/08 Cont of application WO 2000IB1293

US 6694982 B2 A61B-019/00 Cont of application WO 2000IB1293

Abstract (Basic):

... The **gastroplasty** ring, designed to create a small pouch in part of the stomach to reduce appetite, is made from an elastically **deformable** material and in the form of a tube with a **flat** surface on

one side to make contact with the stomach wall (P3). The **ring** is equipped with lugs (1d) which allow it to be attached by sutures (3) to the stomach wall after the **ring** has been **curved** to the required shape. The diameter of the passage between the two pouches is produced by a suture (4) passed through the **ring**'s inner channel (1b) and inserted through a hole in the opposite side of the **ring** to its **flat** surface.

... Creating a small pouch from part of the stomach to suppress appetite in cases of **morbid obesity** ...
...The drawing shows a cross-section of the **gastroplasty** ring fitted to the stomach wall

41/3,K/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012457771 **Image available**

WPI Acc No: 1999-263879/199922

XRAM Acc No: C99-077816

XRPX Acc No: N99-196574

Internal vascular prosthesis for treating cerebral and intra-cerebral aneurisms

Patent Assignee: FOUERE A (FOUE-I)

Inventor: FOUERE A

Number of Countries: 069 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9917681	A1	19990415	WO 97FR1784	A	19971007	199922 B
AU 9746267	A	19990427	AU 9746267	A	19971007	199936
			WO 97FR1784	A	19971007	

Priority Applications (No Type Date): WO 97FR1784 A 19971007

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9917681 A1 F 19 A61F-002/06

Designated States (National): AL AU BA BB BG BR CA CN CU CZ EE GE HU ID
IL IS JP KP KR LC LK LR LT LV MG MK MN MX NO NZ PL RO SG SI SK TR TT UA
US UZ VN YU

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT
KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9746267 A A61F-002/06 Based on patent WO 9917681

Abstract (Basic):

... of localized hemorrhaging caused by rupture of an aneurism, is made from one or more **sleeves** of a malleable metal, able to expand radially under internal pressure and maintain the adopted shape. Each **sleeve** (1) has a hollow cylindrical portion with a thin semi-solid wall of circular section...
...occlusion of the aneurism being treated. The extending zones are cut out to form elongated **deformable** elements in a wavy configuration of **straight** and **curved** sections, the **straight** sections being designed to extend parallel to the axis of the **sleeve** on expansion. The **sleeve** can be made by engraving, laser cutting or electroerosion from a thin-walled metal tube...
...Can be inserted during **surgical** operation of very short duration...

41/3,K/6 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010375654 **Image available**

WPI Acc No: 1995-276968/199537

XRPX Acc No: N95-211828

Medical instrument for insertion in body cavity e.g. blood vessel -
comprises elongate narrow shaft with distal end treatment formation,
including curved or looped stabilising portion at intermediate region

Patent Assignee: BRAUN CELSA SA B (BINT); BRAUN CELSA B (BINT)

Inventor: BOVYN G; CHEVILLON G; COTTENCEAU J

Number of Countries: 006 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2715827	A1	19950811	FR 941344	A	19940207	199537 B
EP 670150	A1	19950906	EP 95400209	A	19950201	199540

Priority Applications (No Type Date): FR 941344 A 19940207

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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FR 2715827	A1	17	A61F-002/01		
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EP 670150	A1 F	8	A61F-002/01		
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Designated States (Regional): BE DE ES GB IT

...Abstract (Basic): The **curved** region may have a number of alternative configurations, including a single arc, a **loop**, or a double undulation in a **flat** plane. The shaft is formed of a material which retains the shape to which it is **deformed**, and may have a separate cladding **sleeve**. The shaft is dimensioned to be insertable in e.g. a blood vessel, with a distance between the **curved** region and the distal end typically between 60mm and 100mm...

41/3,K/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007687884 **Image available**

WPI Acc No: 1988-321816/198845

XRPX Acc No: N88-244072

Medical eye shield or goggles - comprises thin elongate flexible member
and elongate deformable flexible seal at edge

Patent Assignee: BFD IND INC (BFDI-N); RUSSELL J P (RUSS-I)

Inventor: RUSSELL J P

Number of Countries: 012 Number of Patents: 018

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4779291	A	19881025	US 8778553	A	19870728	198845 B
WO 8900844	A	19890209	WO 87US2608	A	19871013	198908
AU 8811850	A	19890301				198923
NO 8901262	A	19890619				198930
EP 326585	A	19890809	EP 88900961	A	19871013	198932
DK 8901399	A	19890321				198934
FI 8901483	A	19890328				198940
BR 8707828	A	19891031				198949
JP 2501036	W	19900412				199021
HU 54483	T	19910328				199117
NO 171622	B	19930104	WO 87US2608	A	19871013	199306
			NO 891262	A	19890322	
EP 326585	B1	19930721	WO 87US2608	A	19871013	199329
			EP 88900961	A	19871013	
DE 3786670	G	19930826	DE 3786670	A	19871013	199335

			WO 87US2608	A	19871013	
			EP 88900961	A	19871013	
CA 1328386	C	19940412	CA 553772	A	19871208	199420
FI 92646	B	19940915	WO 87US2608	A	19871013	199437
			FI 891483	A	19890328	
EP 326585	A4	19900228	EP 88900961	A	19871013	199510
RU 2039541	C1	19950720	SU 4613982	A	19890327	199614
KR 9505333	B1	19950523	WO 87US2608	A	19871013	199704
			KR 89700550	A	19890328	

Priority Applications (No Type Date): US 8778553 A 19870728

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4779291	A		9		
WO 8900844	A	E			
EP 326585	A	E			
NO 171622	B			A61F-009/04	Previous Publ. patent NO 8901262
EP 326585	B1	E	12	A61F-009/02	Based on patent WO 8900844
DE 3786670	G			A61F-009/02	Based on patent EP 326585 Based on patent WO 8900844
FI 92646	B			A61F-009/02	Previous Publ. patent FI 8901483
RU 2039541	C1		10	A61F-009/04	
CA 1328386	C			A61F-009/02	
KR 9505333	B1			A61F-009/02	

...Abstract (Basic): An elongated **deformable** flexible sealing member extends along the **flat** edge between the distal ends of the flexible member and a second elongated **deformable** flexible sealing member extends continuously along the **convex** edges and the **concave** edge between the distal ends of the flexible member. An elongated **band** connected between the distal ends of the flexible member attaches the flexible member in an...

...Abstract (Equivalent): thin elongated transparent flexible member (12) having an upper edge (14), a pair of spaced **convex** edges (16) spaced apart and located on said member (12) opposite said upper edge (14)...

...planar portions (20), said planar portions (20) extending between said upper edge (14) and said **convex** edges (16), said **convex** edges (16) being joined by a **concave** edge (18) located on said member (12) opposite said upper edge (14) and between said...

...said web portion (22) extending integrally between said planar portions (20); b. a first elongated **deformable** flexible sealing member (24) extending along said upper edge (14) between the distal ends (28, 30) of said flexible member (12); c. a second elongated **deformable** flexible sealing member (26) extending continuously along said **convex** edges (16) and said **concave** edge (18) between the distal ends (28, 30) of said flexible member (12); and d. an elongated **band** (32) for attaching said flexible member (12) in an arcuate shape around the head of...

...isolating the eyes from airborne matter; characterized in that e. said upper edge (14) being **flat** with said first flexible sealing member (24) extending therealong; f. said elongated **band** (32) being directly connected to the distal ends (28, 30) of said flexible member (12)...

41/3,K/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007638860 **Image available**

WPI Acc No: 1988-272792/198839

XRPX Acc No: N88-207201

Sleeve for surgical aspirator tubes - comprises tubular body with closed and open opposite ends and having spaced aspirator orifices through its wall

Patent Assignee: YARGER R J (YARG-I)

Inventor: YARGER R J

Number of Countries: 011 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 284365	A	19880928	EP 88302548	A	19880323	198839 B
US 4867747	A	19890919	US 89300748	A	19890119	198947
CA 1309920	C	19921110	CA 560200	A	19880301	199251
EP 284365	B1	19940608	EP 88302548	A	19880323	199422
DE 3889960	G	19940714	DE 3889960	A	19880323	199428
			EP 88302548	A	19880323	
ES 2056914	T3	19941016	EP 88302548	A	19880323	199442
KR 9605812	B1	19960501	KR 883134	A	19880323	199916

Priority Applications (No Type Date): US 8728788 A 19870323

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 284365	A	E	7		
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Designated States (Regional): AT CH DE ES FR GB IT LI

US 4867747	A		7		
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EP 284365	B1	E	9	A61M-001/00	
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Designated States (Regional): AT CH DE ES FR GB IT LI

DE 3889960	G			A61M-001/00	Based on patent EP 284365
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ES 2056914	T3			A61M-001/00	Based on patent EP 284365
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CA 1309920	C			A61M-001/00	
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KR 9605812	B1			A61M-001/00	
------------	----	--	--	-------------	--

...Abstract (Basic): deformable to slidably engage over and assume the profile of the forward portion of the **surgical** aspirator tube...

...USE/ADVANTAGE - A releasable sleeve for the tip of a **surgical** aspirator tube, that prevents clogging during use...

...Abstract (Equivalent): A **sleeve** in combination with an elongate **surgical** aspirator tube (20) having either a **straight** or a **curved** profile, the aspirator tube having an enlarged medial portion (23), a forward portion (24) extending...

...portion and with the forward portion being diametrically smaller than the enlarged medial portion; said **sleeve** comprising an elongate, tubular body (12) defining an internal channel (19) having an open, rearward aspirator end (15) and a forward tip end (16), said tubular body being **deformable** to slidably engage over and assume the profile of the forward portion of the **surgical** aspirator tube; said body defining plural, spaced orifices (18) at least in the forward tip...

...channel (19) defined by the tubular body; characterised in that the tip end of the **sleeve** is closed and the channel of said tubular body is configured to releasably receive the...

...Abstract (Equivalent): a curvilinear shape of an aspirator tube. USE - Releasable sleeve to prevent clogging of a **surgical** aspirator...

41/3,K/11 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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05830274 **Image available**

HEALTH PROMOTING TOOL

PUB. NO.: 10-113374 [JP 10113374 A]

PUBLISHED: May 06, 1998 (19980506)

INVENTOR(s): ONODA YUKIO
KUNIMI KAZUE
APPLICANT(s): ONODA YUKIO [000000] (An Individual), JP (Japan)
KUNIMI KAZUE [000000] (An Individual), JP (Japan)
APPL. NO.: 08-287666 [JP 96287666]
FILED: October 09, 1996 (19961009)
...JAPIO CLASS: Medical)

ABSTRACT

...SOLUTION: A detection bar 1 is formed in a **deformed ring** shape by continuously connecting a grip part 1a of a **straight** line-shaped bar body and an auxiliary part 1b of a circular arc-shaped bar...
... respective directions, and directionality of the color tape 2 is decided, and for example, a **curved** surface of the continuously connecting part 1c is applied to a pressure pain part of...

43/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
004830164
WPI Acc No: 1986-333505/198651
XRAM Acc No: C86-144462
XRPX Acc No: N86-248700

Femur head prosthesis - with plastomer support and wedge fixture requiring no bone cement

Patent Assignee: GEBR SULZER AG (SULZ); PROTEK AG (PROT-N)

Inventor: MORSCHER E W

Number of Countries: 008 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 204919	A	19861217	EP 86105051	A	19860412	198651 B
US 4718916	A	19880112	US 86870091	A	19860603	198804
CH 666178	A	19880715				198833
EP 204919	B	19900103				199002
DE 3667908	G	19900208				199007

Priority Applications (No Type Date): CH 852476 A 19850612

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 204919	A	G	12		
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Designated States (Regional): AT BE FR GB IT

EP 204919	B	G			
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Designated States (Regional): AT DE FR GB IT

...Abstract (Equivalent): A femoral head prosthesis having a **straight** blade-like stem which in its distal zone (d) is centred radially and guided for axial movement by a **sleeve** and which also has at the transition between its blade and the prosthesis neck a **collar** -like projection and which is wedged laterally in the proximal zone (p) by means of...

...of the stem is resiliently mounted medially in a plastics insert, that surface of its **collar** -like projection which is near the bone being a **convex** part-cylindrical surface which bears in a matching **concave** surface of the insert, and the plastics insert is encased in a **deformable** metal casing which is open on the lateral narrow side and whose proximal edge is...

International Patent Class (Additional): **A61F-002/30**

43/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
004767087
WPI Acc No: 1986-270428/198641
XRPX Acc No: N86-202011

Pressure dressing - with guide rods mounted on the pad and rigid plate
with apertures and loops freely set on guide rods

Patent Assignee: DNEPR MED INST (DNME-R)
Inventor: KOMOK A S; MALEVICH O E; MATROSOV Y U P
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1212427	A	19860223	SU 3791783	A	19840920	198641 B

Priority Applications (No Type Date): SU 3791783 A 19840920

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1212427	A		2		

...Abstract (Basic): The pressure dressing includes a pad (1), a rubber
balloon (2), a rigid plate (3) and straps . Guide rods (5) and a
connection (6) for the supply and evacuation of refrigerant are...
...form of a metal chamber, the working surface of which, facing towards
the tissues, is concave , while the opposite surface is flat .
International Patent Class (Additional): A61F-013/12

NON-PATENT LITERATURE

File 155:MEDLINE(R) 1951-2005/Nov 11
(c) format only 2005 Dialog
File 5:Biosis Previews(R) 1969-2005/Nov W1
(c) 2005 BIOSIS
File 73:EMBASE 1974-2005/Nov 14
(c) 2005 Elsevier Science B.V.
File 34:SciSearch(R) Cited Ref Sci 1990-2005/Nov W1
(c) 2005 Inst for Sci Info
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 6:NTIS 1964-2005/Nov W1
(c) 2005 NTIS, Intl Cpyrght All Rights Res
File 8:Ei Compendex(R) 1970-2005/Nov W1
(c) 2005 Elsevier Eng. Info. Inc.
File 94:JICST-EPlus 1985-2005/Sep W2
(c) 2005 Japan Science and Tech Corp(JST)
File 95:TEME-Technology & Management 1989-2005/Oct W1
(c) 2005 FIZ TECHNIK
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Oct
(c) 2005 The HW Wilson Co.
File 144:Pascal 1973-2005/Nov W1
(c) 2005 INIST/CNRS
File 35:Dissertation Abs Online 1861-2005/Oct
(c) 2005 ProQuest Info&Learning
File 65:Inside Conferences 1993-2005/Nov W2
(c) 2005 BLDSC all rts. reserv.
File 431:MediConf: Medical Con. & Events 1998-2004/Oct B2
(c) 2004 Dr. R. Steck

Set	Items	Description
S1	1445117	BAND OR BANDS OR BELT OR BELTS OR STRAP OR STRAPS OR CUFF - OR CUFFS OR SLEEVE OR SLEEVES OR COLLAR OR COLLARS
S2	839064	STRIP OR STRIPS OR LOOP OR LOOPS
S3	26375	INFLATE OR INFLATES OR INFLATED OR INFLATING
S4	531674	FLAT OR FLATTEN??? OR STRAIGHT OR STRAIGHTEN???
S5	1469512	CONVEX OR CONCAVE OR CURV???
S6	36	S1:S2(S)S3(S)S4
S7	20	RD (unique items)
S8	20	Sort S7/ALL/PY,A

8/7/2 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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0511878 NTIS Accession Number: N75-25539/8/XAB

Therapeutic Hand Exerciser

(Patent Application)

Barthlome, D. E.

National Aeronautics and Space Administration. Langley Research Center,
Langley Station, Va.

Report No.: PAT-APPL-583 487; NASA-CASE-LAR-11667-1

Filed 3 Jun 75 15p

Document Type: Patent

Journal Announcement: GRAI7520; STAR1316

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NTIS Prices: PC A02/MF A01

An apparatus is described for cyclic therapeutic exercise of incapacitated hands. It alternately imparts a **straightening** and bending motion to the fingers by the use of a splint-like inflatable member attached to the top of the hand and a lower pouch in the palm of the hand which pulls a flap tight around the fingertips. The basic operation of the invention in **straightening** the fingers is described. The upper pouch is **inflated** causing the fingers, which are attached to it by finger **loops**, to be **straightened**. When the upper pouch is deflated through a valve, the lower pouch is **inflated**, and this pulls a flap tight around the fingertips causing them to bend. Alternate inflation and deflation of the upper and lower pouches is accomplished by a pumping system, which, by use of a cycling valve, assures one pouch is always being deflated while the other is being **inflated**.

8/7/5 (Item 5 from file: 5)

DIALOG(R)File 5:BIOSIS Previews(R)

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0003194591 BIOSIS NO.: 198171013550

MECHANICS OF THE CHEST WALL DURING RESTRICTIVE THORACIC STRAPPING

AUTHOR: DE TROYER A (Reprint)

AUTHOR ADDRESS: CHEST SERV, ERASME UNIV HOSP, BRUSSELS SCH MED, 808 RTE DE LENNICK, B-1070 BRUSSELS, BELG**BELGIUM

JOURNAL: Respiration 39 (5): p241-250 1980

ISSN: 0025-7931

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: Respiratory mechanics were studied in 4 young men during restrictive thoracic strapping. Passive pressure-volume (PV) characteristics of the chest wall during voluntary relaxation were obtained. Effects on lung mechanics were similar to those observed in previous studies in that lung recoil pressure (Pst [L]) increased at any volume and compliance decreased. In each subject strapping decreased FRC [functional residual capacity] and Pst (L) at FRC, and transposed the deflation chest wall PV curve to lower volumes at any given transthoracic pressure. Strapping **flattened** the slope of the curve: the average chest wall compliance decreased from 0.229 to 0.106 l/cm H2O. These changes occur because the (inward) force exerted by the **strap** on the chest wall is higher when the thorax is **inflated** than when it is deflated. Elastic work of breathing is increased by strapping; this increase is almost entirely due to the work done on the chest wall. Despite the lower lung compliance, the work required to overcome the elastic forces of the lung is not increased during strapping.

8/7/12 (Item 12 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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11398565 PMID: 8752695

[Tracheal deformity observed in tracheostomized Duchenne muscular dystrophy patients who can speak with appropriately inflated cuff of tracheal tube]

Shinoe T; Kawai M

Department of Neurology, Shimoshizu National Hospital.
Rinsho shinkeigaku = Clinical neurology (JAPAN) Feb 1996, 36 (2)
p355-7, ISSN 0009-918X Journal Code: 0417466
Publishing Model Print
Document type: Journal Article ; English Abstract
Languages: JAPANESE
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Respiratory failure occurring during late adolescence is a major cause of death in Duchenne muscular dystrophy (DMD). A number of respiratory assistance techniques including tracheostomy and positive pressure mechanical ventilation have been utilized not only to prolong DMD patients' life but also to improve quality of their life. It is surprising that most of the tracheostomized DMD patients can speak under positive pressure ventilatory assistance. Preserved functions of glosso-pharyngo-laryngeal muscles in these patients presumably make it possible to control the air leak around tracheal tube, which does not necessitate tight inflation of the tube cuff. Recently we noticed that some patients are still able to speak even when the cuff is fully inflated. In order to understand the mechanism of this phenomenon, we visualized the topographical relationship between trachea and the tube cuff using computed tomography by filling the cuff with aqueous contrast medium. We obtained following findings: 1) Trachea is flat and deviated from normal midline position, and 2) the tube cuff is located eccentrically in trachea resulting in compression of one side of the inner wall and leaving open space on the other side. We conclude that the tracheal malposition and deformity underlie this strange phenomenon and tight inflation of the cuff to prevent air leak may result in unfavorable complications in DMD patients.

Record Date Created: 19961203
Record Date Completed: 19961203

8/7/14 (Item 14 from file: 5)
DIALOG(R)File 5: BIOSIS Previews(R)
(c) 2005 BIOSIS. All rts. reserv.
0013540175 BIOSIS NO.: 200200133686
Colporrhaphy method and apparatus
AUTHOR: Jervis James E
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1253 (2): Dec. 11, 2001 2001
MEDIUM: e-file
ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A balloon apparatus adapted for sequential dissection of an anatomical space and associated methods are provided. The balloon apparatus comprises a tubular member having a lumen, a tunneling member slidably disposed in the lumen of the tubular member, a flattened substantially rectangular balloon sealed about the tubular member, a sleeve which contains the deflated balloon in generally cylindrical rolls about the tunneling member, and a retainer which prevents an inverted substantially heel-shaped portion of the balloon from everting and inflating prior to inflation of the remainder of the balloon. In a preferred method of operation, the balloon apparatus enters an anatomical space whereby the entry point into the anatomical space divides the space into a superior and inferior portions. The tunneling member is advanced

into the superior portion of the space and the balloon **inflated** ,
thereby dissecting the superior portion of the anatomical space. Then the
retainer is released, permitting the heel-shaped portion to be **inflated**
 , thereby dissecting the inferior portion of the anatomical space.

8/7/16 (Item 16 from file: 5)

DIALOG(R)File 5: BIOSIS Previews(R)

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0014127121 BIOSIS NO.: 200300085840

**Device for treating peripheral circulatory disorders and closing device for
a treatment cylinder thereof**

AUTHOR: Werding Winfried (Reprint)

AUTHOR ADDRESS: 20, rue du Carroz, 1278 La Rippe, Switzerland**Switzerland

JOURNAL: Official Gazette of the United States Patent and Trademark Office

Patents 1265 (5): Dec. 31, 2002 2002

MEDIUM: e-file

ISSN: 0098-1133 _(ISSN print)

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The device comprises a treatment cylinder (1) into which one
extremity (E) is placed for treatment of a peripheral circulatory
disorder and subjected to hyperbaric and hypobaric phases. Said treatment
cylinder has one end (B) that is hermetically closed, and on the other
end (A) supports a **sleeve** (C) that consists of a thick-walled rubber
disk (4) which on its **flat** sides is covered by thin-walled, highly
elastic rubber membranes (6, 7). The rubber disk and the rubber membranes
are provided with openings (5, 8, 9), while the diameters of the openings
(8, 9) of the rubber membranes (6, 7) are smaller than the diameter of
the opening (5) of the rubber disk (4) so that during pressure changes in
the treatment cylinder (1) the rubber membranes (6, 7) adapt so to the
form of the extremity (E) to be treated that they create a **sleeve**
effect and close off the treatment cylinder (1) at the end (A) in such a
way that the intensity of the pressure variation can be achieved and kept
constant during a specific time period without having to **inflate** the
sleeve (C). This solution prevents for the entire duration of the
treatment the venous return to the heart from becoming blocked.

File 155:MEDLINE(R) 1951-2005/Nov 11
 (c) format only 2005 Dialog
 File 5:Biosis Previews(R) 1969-2005/Nov W1
 (c) 2005 BIOSIS
 File 73:EMBASE 1974-2005/Nov 15
 (c) 2005 Elsevier Science B.V.
 File 34:SciSearch(R) Cited Ref Sci 1990-2005/Nov W1
 (c) 2005 Inst for Sci Info
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
 File 94:JICST-EPlus 1985-2005/Sep W2
 (c)2005 Japan Science and Tech Corp(JST)
 File 144:Pascal 1973-2005/Nov W1
 (c) 2005 INIST/CNRS

Set	Items	Description
S1	1054006	BAND OR BANDS OR BELT OR BELTS OR STRAP OR STRAPS OR CUFF - OR CUFFS OR SLEEVE OR SLEEVES OR COLLAR OR COLLARS
S2	579753	STRIP OR STRIPS OR LOOP OR LOOPS
S3	22445	INFLATE OR INFLATES OR INFLATED OR INFLATING
S4	673600	DEFORM?
S5	1124733	CONVEX OR CONCAVE OR CURV???
S6	462539	CROSS() (SECTION? ? OR PIECE OR PIECES) OR CROSSWAYS OR CRO- SSPIECE? ? OR CROSSWISE OR TRANSVERSE?
S7	356303	FLAT OR FLATTEN??? OR STRAIGHT OR STRAIGHTEN???
S8	814	S5(1N)S6
S9	34	S1:S2 AND S8
S10	5	S7 AND S9
S11	1	S3:S4 AND S10
S12	107602	CURVATURE
S13	268	S12(1N)S6 NOT S8
S14	9	S1:S2 AND S13
S15	2	S7 AND S14 [not relevant]
S16	0	S3:S4 AND S15
S17	5	RD S10 (unique items) [not relevant]

11/3,K/1 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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07515022 Genuine Article#: 175NL No. References: 25

Title: Deployment dynamics of tape springs

Author(s): Seffen KA (REPRINT) ; Pellegrino S

Corporate Source: UNIV CAMBRIDGE,DEPT ENGN, TRUMPINGTON ST/CAMBRIDGE CB2
 1PZ//ENGLAND/ (REPRINT)

Journal: PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON SERIES A-MATHEMATICAL
 PHYSICAL AND ENGINEERING SCIENCES, 1999, V455, N1983 (MAR 8), P
 1003-1048

ISSN: 1364-5021 Publication date: 19990308

Publisher: ROYAL SOC LONDON, 6 CARLTON HOUSE TERRACE, LONDON SW1Y 5AG,
 ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: Tape springs are **straight** , thin-walled **strips** with a **curved cross - section** . Following recent proposals for large deployable structures exploiting the structural simplicity and robustness of such...
 ...or folded into a zigzag pattern. It is shown that in both cases the **spring deforms** by forming an **elastically deformed region** with **zero transverse curvature** and **uniform longitudinal curvature**. The process of formation and growth...

File 155:MEDLINE(R) 1951-2005/Nov 11
 (c) format only 2005 Dialog
 File 5:Biosis Previews(R) 1969-2005/Nov W1
 (c) 2005 BIOSIS
 File 73:EMBASE 1974-2005/Nov 15
 (c) 2005 Elsevier Science B.V.

Set	Items	Description
S1	379632	BAND OR BANDS OR BELT OR BELTS OR STRAP OR STRAPS OR CUFF - OR CUFFS OR SLEEVE OR SLEEVES OR COLLAR OR COLLARS
S2	264621	STRIP OR STRIPS OR LOOP OR LOOPS
S3	14618	INFLATE OR INFLATES OR INFLATED OR INFLATING
S4	142455	DEFORM?
S5	499220	CONVEX OR CONCAVE OR CURV???
S6	111919	CROSS() (SECTION? ? OR PIECE OR PIECES) OR CROSSWAYS OR CRO- SSPIECE? ? OR CROSSWISE OR TRANSVERSE?
S7	128388	FLAT OR FLATTEN?? OR STRAIGHT OR STRAIGHTEN???
S8	28609	CURVATURE
S9	0	S1:S2 AND S3:S4 AND (S5 OR S8) (5N)S6 AND S7
S10	39	S3:S4 AND (S5 OR S8) AND S6 AND S7
S11	7	S1:S2 AND S10
S12	3	RD (unique items) [not relevant]
S13	0	S10 NOT S7
S14	32	S10 NOT S11
S15	22	RD (unique items)
S16	22	Sort S15/ALL/PY,A
S17	3637	'GASTROPLASTY' OR DC='E4.210.485.'
S18	258449	RING? ?
S19	4487	GASTRIC() (S1 OR S18 OR S2) OR GASTROPLASTY
S20	1038	(S1:S2 OR S18) AND (S17 OR S19)
S21	75	S20 AND (S5 OR S8)
S22	1	S3:S4 AND S21
S23	0	S7 AND S21
S24	74	S21 NOT (S11 OR S14 OR S22)
S25	51	RD (unique items)
S26	7	S25/2005
S27	3	S25/2004
S28	41	S25 NOT S26:S27
S29	41	Sort S28/ALL/PY,A

16/3,K/11 (Item 11 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

10978692 PMID: 7757440

Access with flexible cannulae.

Shimi S M

Department of Surgery, Ninewells Hospital and Medical School, University of Dundee, Scotland.

Endoscopic surgery and allied technologies (GERMANY) Feb 1995, 3 (1)
 p51-4, ISSN 0942-6027 Journal Code: 9412631

Publishing Model Print

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... access cannulae maintain a readily accessible tract for the efficient introduction and withdrawal of both **straight** and **curved** endoscopic instruments from skin to the parietes. Their main advantage is their

capacity to **deform** , allowing the passage of **curved** instruments. Several designs of flexible access cannulae are currently available. The most practical design makes...

... seal valves for these cannulae are currently primitive. The capacity of flexible access cannulae for **deformation** along the longitudinal and **transverse** axes could potentially be exploited for retrieval of small organs. Clinically, flexible cannulae have been used whenever **curved** instruments were needed. Coaxial **curved** and bayonet instruments have been used extensively in both thoracoscopic and laparoscopic operations. These instruments will allow an additional degree of freedom, that of the pre-formed **curve** of the instrument. In clinical terms this will facilitate the dissection, retraction and encirclement of tubular structures. In addition, the creation of intra-corporeal surgical knots is more efficient using **curved** needle holders.

22/7/1 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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11097297 EMBASE No: 2001115645

**Adjustable silicone gastric banding vs vertical banded gastroplasty .
Laparotomic and laparoscopic approach. Evaluation of complication**

BENDAGGIO GASTRICO REGOLABILE VS GASTROPLASTICA VERTICALE: APPROCCIO
LAPAROTOMICO E LAPAROSCOPICO ED ANALISI DELLE COMPLICANZE

De Luca M.; Formisano C.; Cappuccio M.; De Werra C.; Loffredo A.;
Forestieri P.

M. De Luca, Via Sant' Anna 71, 80046 San Giorgio a Cremano NA Italy

AUTHOR EMAIL: forestie@unina.it

Chirurgia (CHIRURGIA) (Italy) 2000, 13/5-6 (253-257)

CODEN: CHRRE ISSN: 0394-9508

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ITALIAN SUMMARY LANGUAGE: ENGLISH; ITALIAN

NUMBER OF REFERENCES: 14

Background. Aim of this study is to compare two different techniques of restrictive bariatric surgery: Adjustable Silicone Gastric Banding (ASGB) and Vertical Banded **Gastroplasty** (VBG) and to evaluate weight loss and complications. This is a retrospective analysis. Mean follow-up is 24 months; 13 Italian departments of surgery contributed to the study. All departments have a good experience in bariatric and/or advanced laparoscopic surgery. Methods. The number of patients studied is 2686: 1572 underwent ASGB (219 laparotomically and 1353 laparoscopically); 1114 underwent VBG (914 laparotomically and 200 laparoscopically). All selected patients are "morbid obesese"; BMI is between 40 and 50. ASGB is a **silicone band with an internal inflating tube**. It is fixed laparotomically or laparoscopically, around the stomach and below the cardia (2 cm). The **band** reduces food intake because of slow gastric emptying and is connected to a reservoir fixed under the anterior sheath of abdominal wall muscles to be calibrated. VBG (performed laparotomically or laparoscopically) consists of a cylindric pouch on the small **curvature** of the stomach performed by a suture mechanism (one circular and one linear with 4 rows of stitches). Results. The weight expressed in Body Mass Index (BMI), the percentage of excess weight loss (%EWL) and the early and intermediate postoperative complication have been evaluated. Conclusions. ASGB operation is easier to perform (laparoscopically too) than VBG but ASGB weight loss is less than VBG. ASGB complications are more frequent than VBG complications but treatment in ASGB cases is easier.

27/7/3 (Item 1 from file: 73)

DIALOG(R) File 73:EMBASE

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12824210 EMBASE No: 2004419749

Physical principles of available adjustable gastric bands: How they work

Fried M.; Lechner W.; Kormanova K.

Dr. M. Fried, U jezera 2044/8, 155 00 Prague 5 Czech Republic

AUTHOR EMAIL: docfried@volny.cz

Obesity Surgery (OBES. SURG.) (United States) 2004, 14/8 (1118-1122)

CODEN: OBSUE ISSN: 0960-8923

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 16

Background: Commonly used adjustable **gastric bands** function on two different physical principles: low pressure-high volume and high pressure-low volume system. Methods: A study was carried out to investigate the theoretical and clinical levels of adjustable **band** volume-pressure features and their possible influence on **band** -related complications. The theoretical study had two objectives: to define physical principles of impact of the **band** balloon on the gastric wall at the stoma region, and to apply a physical formula for calculating this data. The objectives of the clinical part of the study were to construct a simple reliable measuring device, enabling data collection on an outpatient basis from patients who had undergone gastric banding with the two **band** systems, to support or refute the theoretically calculated results. Results: A physical formula calculated the pressure applied by the different **band** systems on the gastric wall in the stoma region. Calculations revealed a >100% difference in pressure caused by the respective **bands** . Invasive pressure measurements in 35 patients with the different balloon systems agreed with the calculated data, and found a >100% difference in pressure affecting the stoma wall both at rest and during meals. Conclusions: Differences in pressure on the gastric wall related to the physical system on which the **bands** operate may be a partial explanation for long-term complications of respective **bands** .

29/7/22 (Item 22 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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13927485 PMID: 11680061

Lesser curvature Roux-en-Y gastric bypass as an alternative procedure to failed vertical banded gastroplasty: surgical technique and short-term results.

Denoel C; Denoel A; Coimbra C; Heymans O

Department of Abdominal Surgery, Centre Hospitalier Regional de la Citadelle (CHR) de Liege, Liege, Belgium.

Acta chirurgica Belgica (Belgium) Jul-Aug 2001, 101 (4) p179-84,

ISSN 0001-5458 Journal Code: 0370571

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

PURPOSE: The incidence of revisional surgery for failed vertical banded **gastroplasty** has increased markedly over the last years. Conversion to gastric bypass is considered as a good alternative with satisfactory long

term weight loss without further revisional surgery. Nevertheless, significant morbidity and mortality is still associated with this procedure. New technical aspects make it safer and more effective. The aim of the work is to expose a surgical bypass technique to attempt to reduce morbidity. PATIENTS AND METHODS: Thirty patients have undergone conversions from failed vertical banded **gastroplasty** to a lesser **curvature** Roux-en-Y Gastric Bypass. Surgical technique is described in detail and early complications and initial weight loss were analyzed (mean follow-up: 12 months). RESULTS: The key points of the operation were the small vertical pouch, the complete transection of the distal bypassed stomach, the interposition of a jejunal limb between the two gastric shares and the latero-lateral gastrojejunal anastomosis without proximal **ring** interposition. For the entire series, we noticed one major complication, an acute pancreatitis causing anastomotic fistula and four mild complications, one bleeding on the excluded stomach, one bronchopneumonia, one pleural effusion and one wound dehiscence. The percentage of excess weight loss attained 56.1% at one year follow-up. CONCLUSIONS: There have been tremendous improvements in the safety of gastric bypass over the years. One year follow-up indicates that our surgical bypass procedure is secure with a low complication rate.

Record Date Created: 20011026

Record Date Completed: 20020125

29/7/25 (Item 25 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

13772047 PMID: 11433897

Six years experience with minilaparotomy silastic ring vertical gastroplasty .

Urbain P; Heiderich B

Digestive Surgery Department, RHMS Louis Caty, Baudour, Belgium.
Urbain.Pierre@Integral.be

Obesity surgery - the official journal of the American Society for Bariatric Surgery and of the Obesity Surgery Society of Australia and New Zealand (Canada) Jun 2001, 11 (3) p258-64, ISSN 0960-8923

Journal Code: 9106714

Publishing Model Print; Comment in Obes Surg. 2002 Feb;12(1) 124-5; Comment in PMID 11868289; Comment in Obes Surg. 2002 Oct;12(5):718; Comment in PMID 12448399

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

BACKGROUND: In 1994, we modified the silastic **ring** vertical **gastroplasty** (SRVG) procedure to be able to perform it through a small incision. We expected this MiniSRVG to reduce postoperative pain and discomfort, shorten hospital stay and cost, and reduce scars and overall morbidities. METHODS: From October 1991 to December 1999, 893 patients were operated for morbid obesity. From October 1991 to December 1993, 111 patients underwent the classic Eckhout SRVG. From January 1994 to February 1999, 782 patients underwent the MiniSRVG, in which the dissection is limited to the lesser **curvature** of the stomach and is done partly blindly. Certain technical maneuvers were done to facilitate the procedure and to shorten the incision. RESULTS: Immediate postoperative complications and overall morbidities were similar in both series. Long-term follow-up showed no significant differences in weight and BMI loss. The small

incision in the MiniSRVG, however, shortened the median operating time (32.1 vs 38.1 minutes) and reduced greatly the incision size (6.5 vs 18 cm), the postoperative pain (1.2 vs 2.6 days), the hospital stay (3.0 vs 5.1 days), the evisceration rate (0.1 vs 2.7%) and incisional hernia rate (5.4 vs 15.8%). The only side-effect was an increase in seroma formation (11.8 vs 4.50%). CONCLUSIONS: The MiniSRVG was as safe and efficient as the classic SRVG, obtaining the same BMI reduction and satisfaction.

Record Date Created: 20010703

Record Date Completed: 20011204

File 149:TGG Health&Wellness DB(SM) 1976-2005/Oct W5
(c) 2005 The Gale Group
File 16:Gale Group PROMT(R) 1990-2005/Nov 14
(c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Nov 14
(c)2005 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2005/Nov 14
(c) 2005 The Gale group
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Nov 14
(c) 2005 The Gale Group

Set	Items	Description
S1	704132	BAND OR BANDS OR BELT OR BELTS OR STRAP OR STRAPS OR CUFF - OR CUFFS OR SLEEVE OR SLEEVES OR COLLAR OR COLLARS
S2	88472	INFLATE OR INFLATES OR INFLATED OR INFLATING
S3	904767	FLAT OR FLATTEN??? OR STRAIGHT OR STRAIGHTEN???
S4	247243	CONVEX OR CONCAVE OR CURV???
S5	9	S3(1W)S2
S6	7	RD (unique items) [not relevant]
S7	26	S1(S)S2(S)S3
S8	26	S7 NOT S5
S9	19	RD (unique items)

9/3,K/1 (Item 1 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

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02157264 SUPPLIER NUMBER: 98248253 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Modified tubeless anesthesia during endoscopy for assessment of head and neck cancers. (Original Article).

Ku, Peter K.M.; Tong, Michael C.F.; Kwan, Anne; van Hasselt, Charles Andrew
Ear, Nose and Throat Journal, 82, 2, 121(5)
Feb, 2003

PUBLICATION FORMAT: Magazine/Journal; Refereed ISSN: 0145-5613

LANGUAGE: English RECORD TYPE: Fulltext TARGET AUDIENCE: Professional

WORD COUNT: 3504 LINE COUNT: 00302

... its lumen and down to the trachea under direct vision. A stylet was used to **straighten** the tube before insertion. The laryngoscope was then removed, leaving the endotracheal tube in situ with its **cuff inflated** . Isoflurane was used to deepen the anesthesia, and an IV injection of the muscle relaxant...

INVENTOR

File 155:MEDLINE(R) 1951-2005/Nov 08
(c) format only 2005 Dialog
File 5:Biosis Previews(R) 1969-2005/Nov W1
(c) 2005 BIOSIS
File 73:EMBASE 1974-2005/Nov 10
(c) 2005 Elsevier Science B.V.
File 34:SciSearch(R) Cited Ref Sci 1990-2005/Nov W1
(c) 2005 Inst for Sci Info
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

Set	Items	Description
S1	87	AU=BYRUM R?
S2	39	RD (unique items)
S3	635639	BAND OR BANDS
S4	0	S1 AND S3
S5	39	Sort S2/ALL/PY,A [not relevant]

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200572
(c) 2005 Thomson Derwent
File 349:PCT FULLTEXT 1979-2005/UB=20051103,UT=20051027
(c) 2005 WIPO/Univentio
File 348:EUROPEAN PATENTS 1978-2005/Oct W04
(c) 2005 European Patent Office

Set	Items	Description
S1	17	AU='BYRUM R' OR AU='BYRUM R T' OR AU='BYRUM RANDAL' OR AU=- 'BYRUM RANDY'
S2	17	IDPAT (sorted in duplicate/non-duplicate order)
S3	14	IDPAT (primary/non-duplicate records only)

3/3,AB,IC/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
017313546

WPI Acc No: 2005-637179/200565

XRAM Acc No: C05-191448

XRPX Acc No: N05-522447

Implantable surgical device, e.g. gastric bands for treatment of obesity, comprises elongated flexible inflatable portion, and elongated flexible and inextensible band portion having distal end, proximal end, and longitudinal axis

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); BYRUM R T (BYRU-I)

Inventor: BYRUM R T

Number of Countries: 040 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050187566	A1	20050825	US 2004784416	A	20040220	200565 B
CA 2497523	A1	20050820	CA 2497523	A	20050217	200565
EP 1574189	A1	20050914	EP 2005250951	A	20050218	200565
JP 2005230554	A	20050902	JP 200542821	A	20050218	200565
AU 2005200281	A1	20050908	AU 2005200281	A	20050124	200568

Priority Applications (No Type Date): US 2004784416 A 20040220

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20050187566	A1		8	A61B-017/08	

CA 2497523 A1 E A61B-017/12
EP 1574189 A1 E A61F-005/00
Designated States (Regional): AL AT BA BE BG CH CY CZ DE DK EE ES FI FR
GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU
JP 2005230554 A 10 A61B-017/00
AU 2005200281 A1 A61B-017/135
Abstract (Basic): US 20050187566 A1
Abstract (Basic):

NOVELTY - An implantable surgical device having a deployed and an undeployed shape, comprises an elongated flexible inflatable portion (10); and an elongated flexible and inextensible band portion (20) having a distal end (22), a proximal end (24), and a longitudinal axis between them, the band portion being attached to the inflatable portion along its inner face.

DETAILED DESCRIPTION - An implantable surgical device having a deployed and an undeployed shape, comprises an elongated flexible inflatable portion; and an elongated flexible and inextensible band portion having a distal end, a proximal end, and a longitudinal axis between them, the band portion being attached to the inflatable portion along its inner face, where when the device is in its undeployed shape, at least a portion of the band portion has a concave cross section, taken perpendicular to the longitudinal axis.

USE - The device is useful in endoscopic and open surgical instrumentation, and in robotic-assisted surgery. It is used as adjustable surgically implantable bands, such as gastric bands for the treatment of obesity.

ADVANTAGE - The device does not bend when implanted and take on a concave profile.

DESCRIPTION OF DRAWING(S) - The figure is a perspective view of an implantable surgical device showing it in its deployed position.

Elongated flexible inflatable portion (10)

Elongated flexible and inextensible band portion (20)

Distal end (22)

Proximal end (24)

pp; 8 DwgNo 3/6

International Patent Class (Main): A61B-017/00; A61B-017/08; A61B-017/12;
A61B-017/135; A61F-005/00

International Patent Class (Additional): A61F-002/00; A61L-031/04

3/3,AB,IC/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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017230816

WPI Acc No: 2005-554441/200556

XRPX Acc No: N05-454593

Implanting method of surgical device e.g. gastric bands for treating obesity involves deforming inextensible band portion by encircling around body tissue, such that flat cross-section of band is perpendicular to longitudinal axis

Patent Assignee: BYRUM R T (BYRU-I)

Inventor: BYRUM R T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050183730	A1	20050825	US 2004784415	A	20040220	200556 B

Priority Applications (No Type Date): US 2004784415 A 20040220

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20050183730 A1 8 A61F-002/04

Abstract (Basic): US 20050183730 A1

Abstract (Basic):

NOVELTY - The method involves deforming an elongate flexible and inextensible band portion (20) by encircling around a body tissue, such that flat cross-section of the band is perpendicular to the longitudinal axis (26).

USE - For implanting surgical device e.g. gastric bands for treating obesity.

ADVANTAGE - Uses adjustable gastric band which does not bend when implanted in the stomach or take on a concave profile.

DESCRIPTION OF DRAWING(S) - The figure is the perspective view of the device.

Implantable device (1)

Flexible and inextensible band portion (20)

Longitudinal axis (26)

Injection port (50)

Fluid line (52)

pp; 8 DwgNo 1/6

International Patent Class (Main): A61F-002/04

3/3,AB,IC/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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017112857

WPI Acc No: 2005-437200/200545

XRPX Acc No: N05-354681

Mechanically adjustable gastric band for treatment of morbid obesity, has shield having pair of strands that may be twisted in one or other direction to decrease or increase size of enclosure

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); JOHNSON & JOHNSON (JOHJ)

Inventor: BYRUM R ; CONLON S; DLUGOS D; FREEMAN L; HASSLER B; HUITEMA T;

MCKENNA R; ORTIZ M; SCHULZE D; UTH J; CONLON S P; ORTIZ M S; SCHULZE D R;

BYRUM R T ; DLUGOS D F; FREEMAN L J; HASSLER W L; HUITEMA T W; MCKENNA R

H; UTH J R; BYRAM R; CONREN S; DRAGOS D; HUSSLER B; HUYTMER T; MACKENNA R

; ORTIS M; SCHLUZ D; YOUTH J

Number of Countries: 040 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1547549	A2	20050629	EP 2004257892	A	20041217	200545 B
CA 2490164	A1	20050617	CA 2490164	A	20041213	200545
JP 2005177491	A	20050707	JP 2004364883	A	20041216	200549
AU 2004235622	A1	20050707	AU 2004235622	A	20041202	200551
BR 200405620	A	20050823	BR 20045620	A	20041217	200557

Priority Applications (No Type Date): US 2003530497 P 20031217

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1547549 A2 E 21 A61F-005/00

Designated States (Regional): AL AT BA BE BG CH CY CZ DE DK EE ES FI FR

GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

CA 2490164 A1 E A61B-017/12

JP 2005177491 A 20 A61B-019/00

AU 2004235622 A1 A61B-017/12

BR 200405620 A A61B-017/12

Abstract (Basic): EP 1547549 A2

Abstract (Basic):

NOVELTY - A latch (20) retains one end (16) of a band (12) in an opening (18) in the other end (14) to form a closed loop around the stomach or esophagus. The closed loop defines an enclosure. The band includes an extendable shield having a pair of strands that may be twisted in one direction to decrease the size of the enclosure, or twisted in the other direction to increase the size of the enclosure.

USE - For treatment of morbid obesity.

ADVANTAGE - Provides gastric band that is self-actuating or may include band actuator that is remotely controllable, thereby eliminating need for transcutaneous needle injections of fluid.

DESCRIPTION OF DRAWING(S) - The figure is a top view of the gastric band.

Band (12)

End (14,16)

Opening (18)

Latch (20)

pp; 21 DwgNo 1/27

International Patent Class (Main): A61B-017/12; A61B-019/00; A61F-005/00

International Patent Class (Additional): A61B-017/00; A61F-002/04

3/3,AB,IC/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016930888

WPI Acc No: 2005-255198/200527

XRPX Acc No: N05-209982

Gastric band introduction device for morbid obesity treatment, has inner rod that is slidably and coaxially disposed within support tube, where distal movement of rod exposes mechanism for engaging gastric band

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); BYRUM R T (BYRU-I);

CONLON S P (CONL-I)

Inventor: BYRUM R T ; CONLON S P

Number of Countries: 037 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1520563	A1	20050406	EP 2004256020	A	20040930	200527 B
JP 2005103298	A	20050421	JP 2004288137	A	20040930	200527
US 20050075652	A1	20050407	US 2003676288	A	20030930	200527
AU 2004216637	A1	20050414	AU 2004216637	A	20040930	200530
CA 2483331	A1	20050330	CA 2483331	A	20040930	200532

Priority Applications (No Type Date): US 2003676288 A 20030930

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1520563 A1 E 8 A61F-005/00

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

JP 2005103298 A 9 A61B-017/00

US 20050075652 A1 A61B-017/10

AU 2004216637 A1 A61B-017/12

CA 2483331 A1 E A61B-017/12

Abstract (Basic): EP 1520563 A1

Abstract (Basic):

NOVELTY - The device (10) has an elongated support tube (2) with a proximal end and a distal end. An elongated inner rod (5) has a

proximal end and a distal end, where the distal end comprises a mechanism for releasably engaging a gastric band (20). The inner rod is slidably and coaxially disposed within the support tube and the distal movement of the rod exposes the mechanism for engaging the gastric band.

USE - Used for introducing a gastric band during treatment of morbid obesity.

ADVANTAGE - The distal movement of the rod exposes the mechanism for engaging the gastric band, thus allowing the introduction of the gastric band into a patients abdomen without allowing the gastric band to contact the patients skin or a trocar.

DESCRIPTION OF DRAWING(S) - The drawing shows an isometric view of an unactuated gastric band introduction device.

Elongated support tube (2)

Opposed finger loops (3)

Inner rod (5)

Handle (7)

Gastric band (20)

pp; 8 DwgNo 1/5

International Patent Class (Main): A61B-017/00; A61B-017/10; A61B-017/12;
A61F-005/00

International Patent Class (Additional): A61F-002/04

3/3,AB,IC/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016917317

WPI Acc No: 2005-241605/200525

XRPX Acc No: N05-199143

Gastric band use for treatment of morbid obesity, includes fluid supply tube in fluid communication with balloon and attached to tension carrying belt

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); ETHICON ENDO-SURGERY (ETHI); BYRUM R T (BYRU-I); JAMBOR K L (JAMB-I)

Inventor: BYRUM R T ; JAMBOR K ; BYRUM R ; JAMBOR K L

Number of Countries: 038 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050070937	A1	20050331	US 2003676946	A	20030930	200525 B
EP 1520564	A1	20050406	EP 2004256048	A	20040930	200525
CA 2483335	A1	20050330	CA 2483335	A	20040930	200527
JP 2005103297	A	20050421	JP 2004288126	A	20040930	200527
AU 2004216635	A1	20050414	AU 2004216635	A	20040930	200530
CN 1611191	A	20050504	CN 200490509	A	20040929	200558

Priority Applications (No Type Date): US 2003676946 A 20030930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20050070937	A1			9 A61B-017/08	
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EP 1520564	A1 E			A61F-005/00	
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

CA 2483335	A1 E			A61B-017/12	
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JP 2005103297	A		12	A61B-017/00	
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AU 2004216635	A1			A61B-017/12	
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CN 1611191	A			A61B-017/12	
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Abstract (Basic): US 20050070937 A1

Abstract (Basic):

NOVELTY - The gastric band (20) includes a fluid supply tube (24) in fluid communication with a balloon (28) and attached to a tension carrying belt (22). The balloon includes partitions (30) defining inner chambers (32).

USE - Use for treating morbid obesity.

ADVANTAGE - Provides a gastric band which can be reliably filled with a filling solution since it does not fold or crease.

DESCRIPTION OF DRAWING(S) - The figure shows the isometric view of the gastric band.

Gastric band (20)

Tension carrying belt (22)

Fluid supply tube (24)

Balloon (28)

Partitions (30)

Inner chambers (32)

pp; 9 DwgNo 1/8

International Patent Class (Main): A61B-017/00; A61B-017/08; A61B-017/12;
A61F-005/00

International Patent Class (Additional): A61B-019/00

3/3,AB,IC/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016768176

WPI Acc No: 2005-092452/200511

Related WPI Acc No: 2005-022626; 2005-022627; 2005-039216; 2005-047671;

2005-047672; 2005-074388

XRPX Acc No: N05-080820

Implantable band for anatomical passageway e.g. stomach, has integral attachment mechanism made of material different from material of strap which attaches one end portion to other end portion to secure strap adjacent anatomical passageway

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI)

Inventor: BYRUM R ; CONLON S P; DUNKI-JACOBS A; FENDER B; ORTIZ M; TSONTON M; WILEY J P; BYRUM R T

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2472700	A1	20041227	CA 2472700	A	20040628	200511 B
JP 2005013749	A	20050120	JP 2004190007	A	20040628	200511
BR 200402531	A	20050201	BR 20042531	A	20040628	200515

Priority Applications (No Type Date): US 2004874881 A 20040623; US

2003483353 P 20030627; US 2003507612 P 20030930

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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CA 2472700	A1	E 53	A61B-017/12	
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JP 2005013749	A		26 A61F-002/00	
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BR 200402531	A		A61F-005/37	
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Abstract (Basic): CA 2472700 A1

Abstract (Basic):

NOVELTY - Two end portions (72,74), disposed at either end of a strap (70), has respective inner surface (76) and outer surface (90) that correspond to inner and outer surfaces of strap. An integral attachment mechanism attaches one end portion to the other end portion to secure strap adjacent an anatomical passageway. The attachment mechanism is made of material different from the material of strap.

USE - For placement around anatomical passageway e.g. stomach or other lumen for treatment of medical condition e.g. control of obesity.

ADVANTAGE - Enables implementation with laparoscopic instrument while attachment remains secure over long term of use by providing adjustable gastric band device. Enables fastening and unfastening of readily reversible adjustable gastric band without reducing the holding strength of attachment mechanism.

DESCRIPTION OF DRAWING(S) - The figure shows the partial cross sectional top plan view of an adjustable gastric band with attachment mechanism of dissimilar and elastically deformable material.

Strap (70)
End portions (72,74)
Inner surface (76)
Outer surface (90)
pp; 53 DwgNo 8/26

International Patent Class (Main): A61B-017/12; A61F-002/00; A61F-005/37
International Patent Class (Additional): A61B-017/00

3/3,AB,IC/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016750110

WPI Acc No: 2005-074388/200508

Related WPI Acc No: 2005-022626; 2005-022627; 2005-039216; 2005-047671;

2005-047672; 2005-092452

XRAM Acc No: C05-025415

Implantable band for treatment of medical condition, includes strap to encircle anatomical passageway, and integral attachment mechanism to attach two end portions to secure the strap adjacent the anatomical passageway

Patent Assignee: BYRUM R T (BYRU-I); CONLON S P (CONL-I); DUNKI-JACOBS A (DUNK-I); FENDER B (FEND-I); ORTIZ M (ORTI-I); TSONTON M (TSON-I); WILEY J P (WILE-I)

Inventor: BYRUM R T ; CONLON S P; DUNKI-JACOBS A; FENDER B; ORTIZ M;

TSONTON M; WILEY J P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050002984	A1	20050106	US 2003483353	P	20030627	200508 B
			US 2003507612	P	20030930	
			US 2003507625	P	20030930	
			US 2003507916	P	20030930	
			US 2004874881	A	20040623	

Priority Applications (No Type Date): US 2004874881 A 20040623; US

2003483353 P 20030627; US 2003507612 P 20030930; US 2003507625 P 20030930
; US 2003507916 P 20030930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20050002984	A1		27	A61K-009/16	Provisional application US 2003483353 Provisional application US 2003507612 Provisional application US 2003507625 Provisional application US 2003507916

Abstract (Basic): US 20050002984 A1

Abstract (Basic):

NOVELTY - An implantable band comprises a strap to encircle an anatomical passageway and strap defining a circumferential direction, and an integral attachment mechanism to attach a first end portion to a

second end portion to secure the strap adjacent the anatomical passageway.

DETAILED DESCRIPTION - An implantable band (10) comprises
(1) a strap to encircle an anatomical passageway and strap defining a circumferential direction;
(2) first and second end portions disposed at the end of the strap;
and
(3) an integral attachment mechanism to attach the first end portion to the second end portion to secure the strap adjacent the anatomical passageway.

The strap has inner and outer surfaces and comprises material having at least one first material property. The attachment mechanism comprises material having at least one second material property different from the first material property. The end portions include respective inner and outer surfaces corresponding to the inner and outer surfaces of the strap.

USE - The band is used for treatment of medical condition, e.g. for encircling the stomach (12) for control of obesity. It can be used to occlude flow, e.g. food or body fluids, through an anatomical passageway, e.g. stomach or lumen.

ADVANTAGE - The invention does not require sutures and a large force to create the secure attachment, and has improved attachment mechanism. It can be fastened and unfastened without reducing the holding strength of the attachment mechanism. It is engaged with less force, thus facilitating implementation with laparoscopic instruments. The attachment remains secure over long term use.

DESCRIPTION OF DRAWING(S) - The figure shows an adjustable gastric band wrapped around an upper part of a stomach.

Implantable band (10)

Stomach (12)

Suturing portion (14)

Flexible conduit (22)

Silicone septum (28)

pp; 27 DwgNo 1/26

International Patent Class (Main): A61K-009/16

3/3,AB,IC/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016723397

WPI Acc No: 2005-047672/200505

Related WPI Acc No: 2005-022626; 2005-022627; 2005-039216; 2005-047671;

2005-074388; 2005-092452

XRPX Acc No: N05-041548

Implantable band for surgical weight loss treatment, has strap with two end portions and attachment mechanism attaching two portions together with inner surface of one portion and abutting inner surface of other portion

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); BYRUM R T (BYRU-I);

CONLON S P (CONL-I); CRAWFORD N (CRAW-I); JAMBOR K L (JAMB-I);

SPRECKELMEIER L (SPRE-I)

Inventor: BYRUM R T ; CONLON S P; CRAWFORD N; HARPER K A; JAMBOR K L;

SPRECKELMEIER L; JAMBOR K

Number of Countries: 038 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040267293	A1	20041230	US 2003483353	P	20030627	200505 B

US 2003507625 P 20030930
US 2003507916 P 20030930
US 2003741869 A 20031219
EP 1520533 A1 20050406 EP 2004256021 A 20040930 200523
CA 2483402 A1 20050330 CA 2483402 A 20040930 200527
JP 2005103305 A 20050421 JP 2004288339 A 20040930 200527
AU 2004216630 A1 20050414 AU 2004216630 A 20040930 200530
BR 200405283 A 20050607 BR 20045283 A 20040930 200538
Priority Applications (No Type Date): US 2003741869 A 20031219; US
2003483353 P 20030627; US 2003507625 P 20030930; US 2003507916 P 20030930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040267293	A1		12	A61B-017/08	Provisional application US 2003483353
					Provisional application US 2003507625
					Provisional application US 2003507916

EP 1520533 A1 E A61B-017/12
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

CA 2483402 A1 E A61B-017/12

JP 2005103305 A 14 A61F-002/04

AU 2004216630 A1 A61B-017/12

BR 200405283 A A61B-017/12

Abstract (Basic): US 20040267293 A1

Abstract (Basic):

NOVELTY - The band has a strap (32) encircling a portion of an anatomical passageway. The strap has two end portions (40, 42) disposed at either end of the strap. The portions include respective inner and outer surfaces (34, 36) which correspond to inner and outer surfaces of the strap. An attachment mechanism attaches the portions together with the inner surface of the portion (40), and abuts the inner surface of the portion (42).

USE - Used for treatment of a medical condition e.g. surgical weight loss treatment and gastric bypass.

ADVANTAGE - The attachment mechanism attaches two portions together with inner surface of one portion and abuts the inner surface of the other portion, thus gripping and performing attachment with laparoscopic instruments, yet the attachment remains secure over long term use. The band is fastened and unfastened without reducing the holding strength of the attachment mechanism.

DESCRIPTION OF DRAWING(S) - The drawing shows a top view of a gastric band.

Strap (32)

Inner surface (34)

Outer surface (36)

End portions (40, 42)

Legs (50, 52)

Retaining unit (60)

pp; 12 DwgNo 3/9

International Patent Class (Main): A61B-017/08; A61B-017/12; A61F-002/04

International Patent Class (Additional): A61B-017/00; A61F-005/00

3/3,AB,IC/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016723396

WPI Acc No: 2005-047671/200505

Related WPI Acc No: 2005-022626; 2005-022627; 2005-039216; 2005-047672;
2005-074388; 2005-092452

XRPX Acc No: N05-041547

Surgical implantable band e.g. gastric band for encircling anatomical passageway, has transverse attachment mechanism which couples end portions to each other, to secure strap around anatomical passageway

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); BYRUM R T (BYRU-I); CRAWFORD N (CRAW-I); JAMBOR K L (JAMB-I)

Inventor: BYRUM R T ; CRAWFORD N; JAMBOR K L; JAMBOR K

Number of Countries: 039 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040267292	A1	20041230	US 2003483353	P	20030627	200505 B
			US 2003677088	A	20030930	
CA 2483243	A1	20050330	CA 2483243	A	20040930	200527
AU 2004216634	A1	20050414	AU 2004216634	A	20040930	200530
EP 1529502	A1	20050511	EP 2004256037	A	20040930	200531
JP 2005131380	A	20050526	JP 2004288179	A	20040930	200535
BR 200404989	A	20050524	BR 20044989	A	20040930	200538
CN 1611197	A	20050504	CN 200487487	A	20040929	200558

Priority Applications (No Type Date): US 2003483353 P 20030627; US 2003677088 A 20030930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040267292	A1		12	A61F-002/00	Provisional application US 2003483353
CA 2483243	A1	E		A61B-017/12	
AU 2004216634	A1			A61B-017/12	
EP 1529502	A1	E		A61F-005/00	
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR					
JP 2005131380	A		15	A61B-017/00	
BR 200404989	A			A61F-002/02	
CN 1611197	A			A61F-002/04	

Abstract (Basic): US 20040267292 A1

Abstract (Basic):

NOVELTY - The band includes a strap (32) installed with end portions (40,42) at its ends. The strap and the end portions form inner and outer surfaces that correspond to each other. A transverse attachment mechanism couples the end portions to each other, to secure the strap around the anatomical passageway.

USE - For encircling anatomical passageway e.g. stomach. Used in treating e.g. obesity.

ADVANTAGE - Increases useful life of band. Allows repeated coupling and uncoupling of end portions for long time.

DESCRIPTION OF DRAWING(S) - The figure shows the isometric view and the top view of the surgical implantable band.

Strap (32)

End portions (40,42)

Trapezoidal member (44)

Channel (50)

pp; 12 DwgNo 3, 4/11

International Patent Class (Main): A61B-017/00; A61B-017/12; A61F-002/00; A61F-002/02; A61F-002/04; A61F-005/00

International Patent Class (Additional): A61B-017/08; A61F-005/37; A61F-013/00

3/3,AB,IC/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016714941
WPI Acc No: 2005-039216/200504
Related WPI Acc No: 2005-022626; 2005-022627; 2005-047671; 2005-047672;
2005-074388; 2005-092452
XRPX Acc No: N05-034349
Implantable gastric band for encircling around anatomical passageway e.g. stomach, has opening formed within enlarged portion at one end of strap and adjacent to spherical portions also same strap end
Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); ETHICON ENDO-SURGERY (ETHI); ALBRECHT T E (ALBR-I); BYRUM R T (BYRU-I); JAMBOR K L (JAMB-I)
Inventor: ALBRECHT T; BYRUM R T ; JAMBOR K L; ALBRECHT T E
Number of Countries: 036 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040267288	A1	20041230	US 2003483353	P	20030627	200504 B
			US 2003507625	P	20030930	
			US 2003742483	A	20031219	
EP 1520553	A2	20050406	EP 2004256017	A	20040930	200523
CA 2483246	A1	20050330	CA 2483246	A	20040930	200527
JP 2005103299	A	20050421	JP 2004288198	A	20040930	200527

Priority Applications (No Type Date): US 2003742483 A 20031219; US 2003483353 P 20030627; US 2003507625 P 20030930
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040267288	A1	22	A61B-017/08		Provisional application US 2003483353 Provisional application US 2003507625

Patent No	Kind	IPC Class
EP 1520553	A2 E	A61F-002/00

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR
CA 2483246 A1 E A61B-017/12
JP 2005103299 A 20 A61B-017/00
Abstract (Basic): US 20040267288 A1
Abstract (Basic):
NOVELTY - A gastric band (10) has an elongate strap worn around the upper part of a stomach (12) and sutured at both ends to a portion (14) of the stomach. An opening, formed within the enlarged portion of one end of the strap, attaches the other end of the strap. Spherical portions adjacent to the opening engage into the passageway at the other strap end, retaining the engagement of the strap ends together.
USE - For encircling around anatomical passageway e.g. stomach, and used for controlling morbid obesity.
ADVANTAGE - Strap ends of gastric band can be engaged together with less force for long period of use, while allowing band to be implemented with laparoscopic procedures. Maintains holding strength of strap end engagement, even when strap ends are repeatedly fastened or unfastened together.
DESCRIPTION OF DRAWING(S) - Figure is a schematic of an implantable gastric band worn around the stomach upper part.
Gastric band (10)
Stomach (12)
Portion of stomach (14)
Flexible conduit (22)
Silicone septum (28)
pp; 22 DwgNo 1/15

International Patent Class (Main): A61B-017/00; A61B-017/08; A61B-017/12;
A61F-002/00
International Patent Class (Additional): A61F-002/04

3/3,AB,IC/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016698351
WPI Acc No: 2005-022627/200503
Related WPI Acc No: 2005-022626; 2005-039216; 2005-047671; 2005-047672;
2005-074388; 2005-092452
XRPX Acc No: N05-019534
Adjustable gastric band for use with laparoscopic instrument, has attachment mechanism attaching end portions to secure strap adjacent to anatomical passageway, and including portions associated with respective end portions
Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI)
Inventor: BYRUM R T ; CONLON S P; DUNKI-JACOBS A; FENDER B; ORTIZ M;
TSONTON M; WILEY J P; BYRUM R
Number of Countries: 035 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1491168	A1	20041229	EP 2004253833	A	20040624	200503 B
AU 2004202898	A1	20050120	AU 2004202898	A	20040628	200512
BR 200402531	A	20050201	BR 20042531	A	20040628	200515

Priority Applications (No Type Date): US 2003507612 P 20030930; US 2003483353 P 20030627; US 2004874881 A 20040623
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1491168	A1	E	31	A61F-005/00	
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR					
AU 2004202898	A1			A61B-019/00	
BR 200402531	A			A61F-005/37	

Abstract (Basic): EP 1491168 A1
Abstract (Basic):
NOVELTY - The band (30) has a strap (32) to encircle an anatomical passageway. Two end portions (40, 42) disposed at either ends of the strap include respective inner and outer surfaces corresponding to inner and outer surfaces of the strap. An attachment mechanism attaches the two end portions in order to secure the strap adjacent to the passageway. The attachment mechanism includes portions associated with respective end portions.
USE - Used with a laparoscopic instrument for encircling stomach to control obesity.
ADVANTAGE - The attachment mechanism avoids the need for sutures, and enables the device to utilize less force creating a secure attachment for long use, thus facilitating implementation with the laparoscopic instruments.
DESCRIPTION OF DRAWING(S) - The drawing shows a top plan view of an adjustable gastric band.
Adjustable gastric band (30)
Strap (32)
Surfaces (34, 36)
Balloon (38)
End portions (40, 42)
pp; 31 DwgNo 3/26

International Patent Class (Main): A61B-019/00; A61F-005/00; A61F-005/37
International Patent Class (Additional): A61B-017/12; A61F-002/00

3/3,AB,IC/12 (Item 12 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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016698350

WPI Acc No: 2005-022626/200503

Related WPI Acc No: 2005-022627; 2005-039216; 2005-047671; 2005-047672;

2005-074388; 2005-092452

XRPX Acc No: N05-019533

Adjustable gastric band for encircling anatomical passageway e.g. stomach, has two end portions comprising non-mechanical attachment mechanism to attach end portions to secure strap adjacent anatomical passageway

Patent Assignee: ETHICON ENDO-SURGERY INC (ETHI); JOHNSON & JOHNSON (JOHJ); BYRUM R T (BYRU-I); NUCHOLS R P (NUCH-I)

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Number of Countries: 040 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1491167	A1	20041229	EP 2004253607	A	20040616	200503 B
US 20040267291	A1	20041230	US 2003483353	P	20030627	200503
			US 2003676368	A	20030930	
CA 2472655	A1	20041227	CA 2472655	A	20040628	200508
JP 2005013744	A	20050120	JP 2004188385	A	20040625	200509
AU 2004202488	A1	20050120	AU 2004202488	A	20040603	200512
AU 2004202898	A1	20050120	AU 2004202898	A	20040628	200512
BR 200402531	A	20050201	BR 20042531	A	20040628	200515
BR 200402532	A	20050315	BR 20042532	A	20040628	200522
CN 1618411	A	20050525	CN 200463295	A	20040628	200560
MX 2004006393	A1	20050301	MX 20046393	A	20040628	200566

Priority Applications (No Type Date): US 2003676368 A 20030930; US 2003483353 P 20030627; US 2003507612 P 20030930; US 2004874881 A 20040623

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1491167	A1	E	11	A61F-005/00	

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

US 20040267291	A1			A61F-002/00	Provisional application US 2003483353
CA 2472655	A1	E		A61B-017/12	
JP 2005013744	A		13	A61B-017/00	
AU 2004202488	A1			A61B-017/12	
AU 2004202898	A1			A61B-019/00	
BR 200402531	A			A61F-005/37	
BR 200402532	A			A61F-005/37	
CN 1618411	A			A61F-002/02	
MX 2004006393	A1			A61L-015/00	

Abstract (Basic): EP 1491167 A1

Abstract (Basic):

NOVELTY - The band (30) has an elongated strap (32) to encircle an anatomical passageway, where the strap includes inner and outer surfaces. End portions (40, 42) of the strap, includes inner and outer surfaces corresponding to inner and outer surfaces of the strap. The end portions comprising a non-mechanical attachment mechanism to attach the end portions so as to secure the strap adjacent the anatomical

passageway.

USE - Used for encircling anatomical passageway e.g. stomach and other lumen, to control obesity.

ADVANTAGE - The non-mechanical attachment mechanism attaches the end portions so as to secure the strap adjacent the anatomical passageway, thus providing the gastric band with a secure fastening mechanism which can be fastened and unfastened without minimizing the strength of the mechanism.

DESCRIPTION OF DRAWING(S) - The drawing shows a plan view of an adjustable gastric band having a hook and loop attachment mechanism.

Adjustable gastric band (30)

Elongated strap (32)

Inner surface (34)

Balloon (38)

End portions (40, 42)

pp; 11 DwgNo 3/7

International Patent Class (Main): A61B-017/00; A61B-017/12; A61B-019/00;
A61F-002/00; A61F-002/02; A61F-005/00; A61F-005/37; A61L-015/00

International Patent Class (Additional): A61B-017/08; A61F-013/00

3/3,AB,IC/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016696463

WPI Acc No: 2005-020742/200502

Related WPI Acc No: 2005-020741; 2005-434447

XRAM Acc No: C05-006486

XRPX Acc No: N05-017624

Injection port for injecting fluids into body comprises retention member integrally attached to housing, which have an undeployed state or deployed state engaging tissue when disposed in different positions

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SCHULZE D R

Number of Countries: 039 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040254537	A1	20041216	US 2003478763	P	20030616	200502 B
			US 2003741875	A	20031219	
EP 1488824	A1	20041222	EP 2004253581	A	20040615	200502
CA 2471185	A1	20041216	CA 2471185	A	20040616	200505
JP 2005007171	A	20050113	JP 2004177065	A	20040615	200505
AU 2004202549	A1	20050106	AU 2004202549	A	20040610	200510
BR 200402225	A	20050125	BR 20042225	A	20040615	200514
CN 1600281	A	20050330	CN 200469447	A	20040616	200547

Priority Applications (No Type Date): US 2003478763 P 20030616; US
2003741875 A 20031219

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20040254537	A1	30	A61M-005/32	Provisional application US 2003478763
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EP 1488824	A1 E		A61M-039/02	
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

CA 2471185 A1 E A61M-039/02
JP 2005007171 A 26 A61M-037/00
AU 2004202549 A1 A61M-039/02
BR 200402225 A A61B-017/68
CN 1600281 A A61F-005/37

Abstract (Basic): US 20040254537 A1

Abstract (Basic):

NOVELTY - An injection port (18) comprises a housing (2) or placement beneath the skin and at least one retention member integrally attached to the housing. The retention member has an r023

undeployed state or a deployed state engaging tissue when disposed in different positions relative to the housing.

DETAILED DESCRIPTION - The retention member rotates about a respective axis it moves from first to second position and the axis extending in radial or tangential direction.

USE - For injecting fluids (claimed) into the body for infusing medication, drawing blood, and many other applications including adjustable gastric bands.

ADVANTAGE - The fluid ingestion port suitable for subcutaneous attachments is quickly attachable yet is secured over a long period of time. The retention member is configured to move from the first to second positions without being deformed.

DESCRIPTION OF DRAWING(S) - The figure shows an injection port.

gastric band (10)

stomach (12)

flexible conduit (16)

injection port (18)

housing (20)

annular flange (22)

silicone septum. (26)

pp; 30 DwgNo 1/34

International Patent Class (Main): A61B-017/68; A61F-005/37; A61M-005/32;
A61M-037/00; A61M-039/02

International Patent Class (Additional): A61B-017/12